Demand Response User Guide

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Introduction

Purpose

CAISO introduced two products that rely on the same technical functionality and infrastructure: (1) Proxy Demand Resource (PDR) and (2) Reliability Demand Response Resource (RDRR). PDR bids into the CAISO market as supply and provides services such as energy, non-spin, residual commitment (RUC). In addition, the market dispatches economic day-ahead and real-time. RDRR, on the other hand, bids into the CAISO market as supply and is used for reliability purposes. RDRR only offers energy services and dispatches economic day-ahead and reliability real-time. In order to participate in Demand Response, CAISO provided market participants with two different types of applications: (1) Demand Response Resource Registration (DRRS) and (2) Demand Response System (DRS). This user guide will provide in-depth information on how to proceed from start to end once the Demand Response Provider Agreement (DRPA) has been executed. Furthermore, this guide contains additional information ranging from meter data submission, performance and baseline calculation to a list of helpful document links.

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Definitions

The following defined terms and acronyms are used within this document:

Terms	Definition
Address information	The physical address of the location.
AIM	Access Identity Management (AIM) application. The application provides registered POCs with the ability to view application-level access for all of their organization's users as well as any users from other organizations who have access to their resources (endorsed users).
ALOC	Aggregate Location. A grouping of one or more locations. Aggregation must be served by the same LSE and located in the same SubLAP for approval by the LSE and UDC.
API	Application User Interface. Allows users to upload bulk location data to accommodate the input of the volume of locations participating in the Demand Response Program
AARF	Application Access Request Form
Assign Pre-Defined PDR	CAISO will select a unique pre-established resource ID in the MasterFile for the registration.
BUS Pnode	This is the business that the location ties into and is required if requesting a customer Resource ID. Please note that this data is not consumed nor is it required in DRRS.
Customer	The name of the customer that user assigned during the registration process.
DLA Resource	The DLAP in which the Locations of the Registration resides.
DLAP	Default Load Adjustment Point
DRP	Demand Response Provider
DRPA	Demand Response Provider Agreement
DRP SC	Demand Response Provider Scheduling Coordinator who are responsible for submitting bids into the market and meter data to the DRS.

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DRRS	Demand Response Registration System. Allows users to create large volumes of locations and aggregate locations for participation in the ISO's demand response program.
DRRS UI	Demand Response Registration System User Interface
DRS	Demand Response System
DRS Status	New, Pending, Confirmed, Dispute, Withdrawn
DRS UI	Demand Response System User Interface
End Date	End date of registration. The end date when the Registration will become inactive.
Endorsed User	Individual(s) outside of the company that is requesting for application access.
Existing Resource ID	Resource IDs previously assigned to the DRP account. (Should be selected if resource ID was pre assigned to location)
Load Reduction	The total Load Reduction capacity per location.
LRCV	Load Reduction Capacity Value. Total available kW load reduction.
Location name	Identifies the location/site for the user.
Locations	Physical location of the demand response entity. This includes customer data such as service account number, physical service location, and curtailable load amounts.
LSE	Load Serving Entity
New Custom PDR	CAISO will develop a new resource ID for this registration (custom).
POC	Point of Contact
PDR	Proxy Demand Response Resource
PDR ID	Proxy Demand Resource (PDR) ID. Resource ID assigned by the CAISO for registration participation in the Demand Response System for the Economic program.

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RegID	The registration ID number assigned to the registration by the Demand Response System; this ID is assigned by the DRS in sequential order.
Registration	Comprised of a single location or an aggregation of many locations. Submitted by the DRP to the LSE, UDC, and CAISO for review and approval. Meter data is also submitted at the registration level for the baseline calculation prior to the market participation.
RDRR	Reliability Demand Response Resource
RDRR ID	Reliability Demand Response Resource ID assigned by the CAISO for registration participation in the Demand Response System for the Reliability program.
SAN	Service Account Number. Unique number assigned to a location by the UDC. Dashes or any other special characters are not allowed for the location SAN.
Start Date	Start date of the registration (cannot overlap with existing registration for the same location).
SubLAP	One of the 23 SubLAP locations of CAISO. The SubLAP in which all the locations within the registration reside.
UDC	Utility Distribution Company. The UDC in which the Locations in the Registration reside and is part of the approval process.
UDC Account #	This is the account number a DRP receives from a UDC for billing.
RUC	Residential Unit Commitment
SQMD	Settlement Quality Meter Data
RTD	Real-Time Dispatch
LMP	Locational Marginal Price
ADS	Automated Dispatch System
AIM	Access Identity Management
CIDI	Customer Inquiry, Dispute and Information

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MSA	Meter Service Agreement

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Applications

There are **two** types of applications that will be addressed in this user guide.

1. Demand Response Registration System (DRRS)
2. Demand Response System (DRS)

Application Access

Access to **DRRS** for participation can be obtained through the organization's ***Point of Contact*** (POC) via the ***Access Identity Management*** (AIM) application.

POC *is the designated point of contact for the organization that is requesting for application access. More information on how to become a POC can be found at* *http://www.caiso.com/participate/Pages/PointOfContactGuide/Default.aspx*

AIM POC *is a registered user in AIM and has the ability to perform the functions as described in the AIM definition below.*

AIM *is an application that provides registered POCs with the ability to view application-level access for all of their organization's users as well as any users from other organizations who have access to their resources (endorsed users). More information can be found at* *http://www.caiso.com/Documents/AccessandIdentityManagement_AIM_UserGuide.pdf*

AARF *is an Application Access Request Form used by the POCs to submit a request for application access for the users.*

To request for DRRS access the following shall occur:

1. If the request is for a user within the POC's organization, the POC shall submit a request through AIM. No AARF is required. Note: If the POC is not a registered AIM POC, the POC must submit a request to POCrequests@caiso.com to register to become an AIM POC. The POC cannot proceed until access to AIM has been obtained.

2. If the request is for a user outside of the POC organization, an ***Application Access Request Form*** (AARF) **is required** for DRRS access, AIM is the only method to request for DRRS access. However, if the request is for an

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endorsed user (users outside of the POC's organization), an AARF **is required**. If the POC is not an AIM user, the POC must send a request to POCRequests@caiso.com for access.

Example: (only for DRRS access)

Access for users within the POC's organization = No AARF required (Goes through AIM)

Access for users outside of the POC's organization (endorsed users) = Requires AARF

Access to **DRS** for new users shall be submitted by the user's designated POC using the existing Application Access Request Form (AARF) process through the *Customer Inquiry, Dispute and Information (CIDI)* portal or the *ISO Application Access Requests for Non-CIDI Users* page.

Note: If the POC is requesting access for *endorsed users* that do not work for their organization, the POC can request for this access by submitting an External AARF. Additional system access information (including the AARF) is available on the CAISO website.

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Demand Response Registration System (DRRS)

The Demand Response Registration System (DRRS) application enables market participants with the ability to create large volumes of locations and aggregate locations for participation in the CAISO's demand response program. DRRS also provides an Application Program Interface (API) for uploading bulk location data to accommodate the input of the volume of locations participating in the Demand Response Program.

Furthermore, DRPs are able to create new location(s) and aggregate existing locations. In DRS, aggregated locations shall be registered, reviewed, verified, and approved/denied. DRRS also has is the ability to maintain a duplication check of a location within the active registration.

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User Roles

There are three types for user roles for this application.

User Role	Entity	Read Access Only	Read Write Access	Brief Description of the entity (DRP, LSE, UDC, ISO)
APP_DRRS_DRP_EXT	**DRP**		X	DRP can create/modify locations and ALOCs.
APP_DRRS_LSE_EXT	**LSE**	X		LSE can only review location and aggregated location info.
APP_DRRS_UDC_EXT	**UDC**	X		UDC can only review location and aggregated location info.

The DRRS application provides users with download capability for DRP, UDC and LSE to obtain a list of associated (role-based) locations and ALOC(s) for a certain trade date(s).

In DRRS:

1. A DRP can perform the following
    a. Create/Modify New Locations
    b. Create/Modify New Aggregate Locations
    c. Manage Locations and ALOCs

2 An LSE and UDC will only have read-only access.

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Application Functionality

In DRRS, there are two functionality tabs: (1) Locations, (2) Aggregate Locations

1. **Location** tab – Allows the DRP to create/modify the site information. LSE/UDC can view the information.

2. **Aggregate Locations** tab – Allows the DRP to create/modify the ALOC. LSE/UDC can view the information.

Locations

- Effective dates are required when creating a location. Start Date and End Dates cannot be a prior dates.
- DRRS shall allow users to create a location using web service API or UI.
- Locations may not be added/removed from an active registration.
- Locations cannot be added to or removed from a registration once confirmed.
- Locations are no longer created or copied in DRS.
- Using DRRS, DRP may submit LRCV (optional) at the location level for informational purposes only as it is not used to determine or validate the LRCV of an ALOC or Registration.
- Once created, locations can be end-dated but not deleted.
- To participate in a registration in DRS, location(s) are required in order to be associated with an ALOC.
- Locations in DRRS are not transferred to DRS because they have to be associated to an ALOC in order to participate in a registration.

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Aggregate Location (ALOC)

- An ALOC is defined as an aggregation of one or more locations.
- DRP is required to submit the Load Reduction capacity Value (LRCV) at the ALOC-level.
- The LRCV of an ALOC shall NOT be derived by adding LRCVs (even when provided) for locations constituting the ALOC.
- ALOCs are instantly migrated to DRS as a new location once completed.
- ALOCs can only consist of locations with identical SubLAP, LSE, DRP, and UDC
- ALOCs are uniquely identified by ALOC ID, DRP, UDC, LSE and SubLAP.
- ALOCs are not effective dated.
- ALOCs can have one or more Locations associated to it.
- All ALOCs within a Registration should have the same DRP, LSE, UDC, and SubLAP – enforced within DRS.
- ALOCs are transferred to DRS and is visible in DRS as Locations.
- An ALOC ID is a unique identifier generated in DRRS.
- An ALOC ID is transferred to DRS to populate the UDC Account Number field on the DRS UI.
- ALOCs will be transferred from DRRS to DRS with status = “New”
- ALOCs can have a status of New, Active or Inactive.

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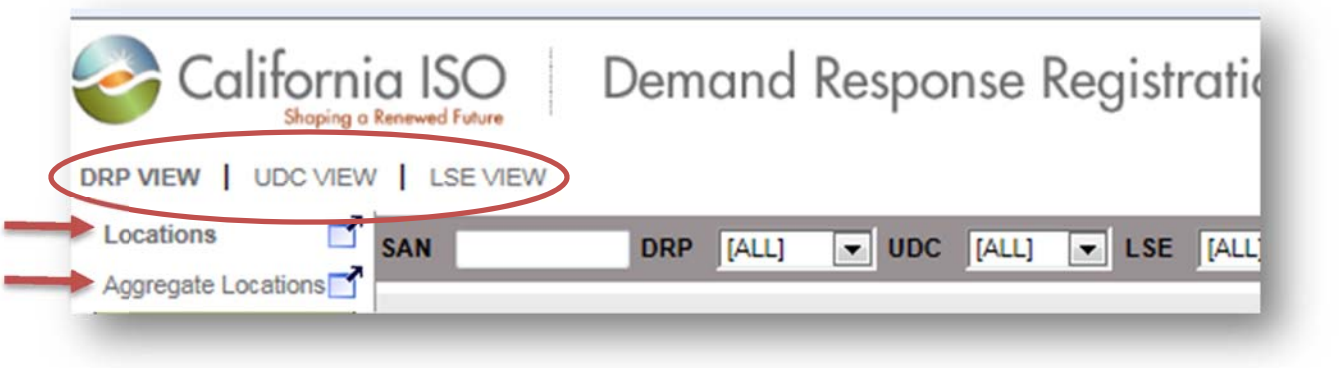
Application Layout

Role-based tab views

In DRRS, there are three (3) different role-based tab views. The views that are accessible to the users will be determined by the number of roles provisioned on the digital CMA certificate.

1. **DRP View** – This tab will be visible to users that log in with the DRP role. Users can have multiple views if the users have multiple roles.
2. **LSE View** – This tab will be visible to users that log in with the LSE role.
3. **UDC View** – This tab will be visible to users that log in with the UDC role.



To access the Location or Aggregate Location functionality, users can place their cursor over the applicable tab(s) (DRP View, LSE View and/or UDC View). The Locations and ALOC screens are accessible under the corresponding views.

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Search Parameters

Allows users to filter using the following criteria: (1) LOC ID, (2) SAN, (3) DRP (4) UDC, (5) LSE, (6) SUBLAP, (7) ALOC NAME, (8) REG ID.

Column Headers

In the ***Locations*** tab, users can sort from ascending to descending by clicking on the following headers: (1) LOC ID, (2) LOC Name, (3) SAN, (4) DRP, (5) UDC, (6) LSE, (7) SUBLAP, (8) Start Date, (9) End Date, (10) Loc Status, (11) Updated By.

In the ***Aggregate Locations*** tab, users can sort from ascending to descending by clicking on the following headers: (1) ALOC ID (2) ALOC Name, (3) DRP, (4) UDC, (5) LSE, (6) SUBLAP, (7) LRCV, (8) Status, (9) Updated By, (10) Updated Date, (11) Reg ID.

Users can also use the inline filtering option The Inline Filter works as a toggle. Click the icon to filter data based on the content of a particular column. Press Enter after inputting the filter criteria. Please note that wildcard symbols can be used in this column but are not necessary.

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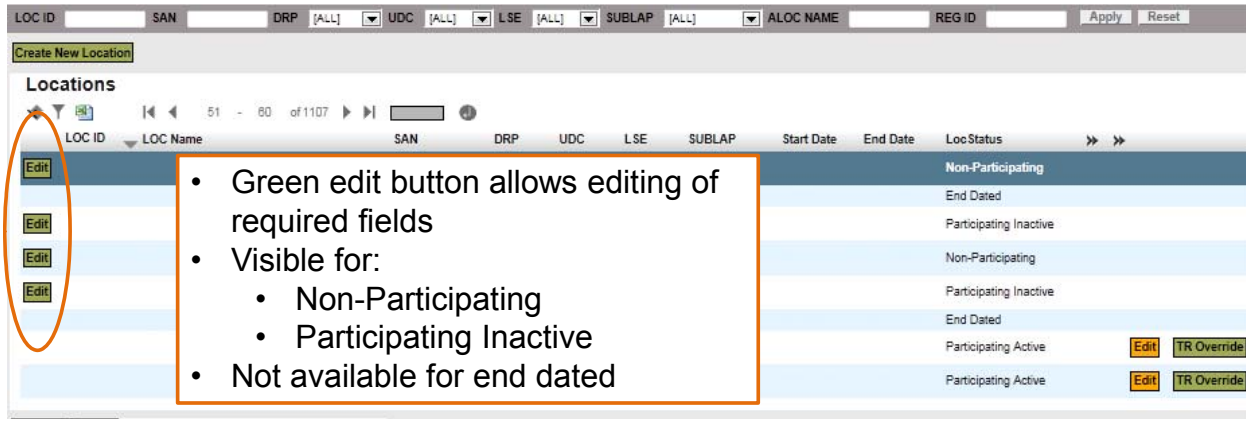
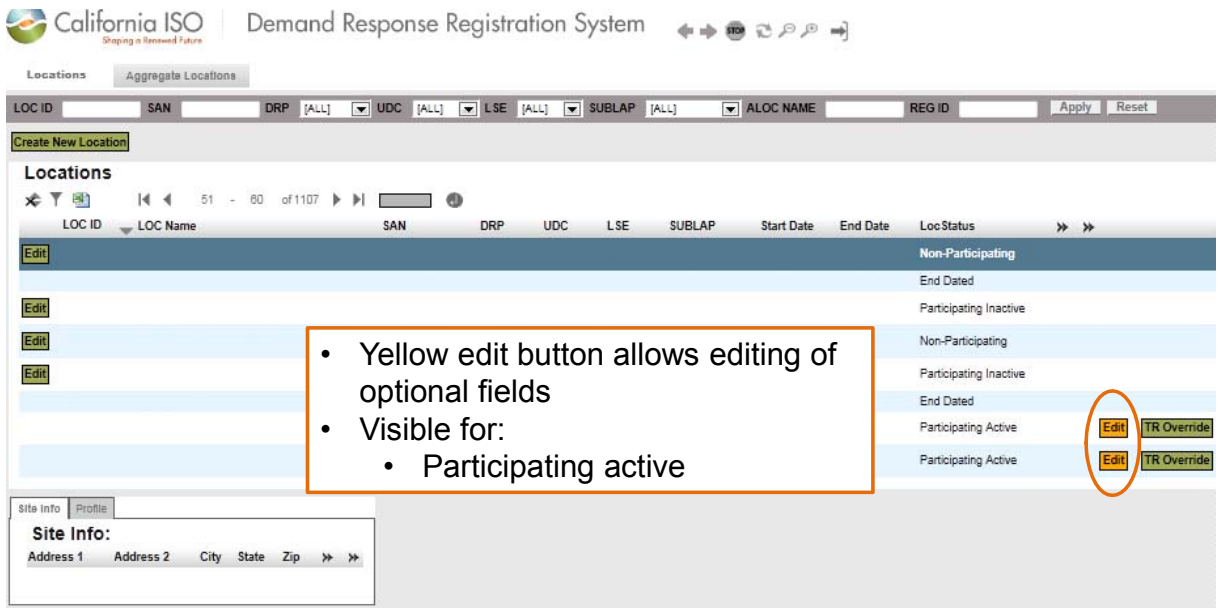
Edit Buttons

The green and yellow **Edit** buttons are functionalities that are available to user(s) such as the DRP under the *Locations* Status view.





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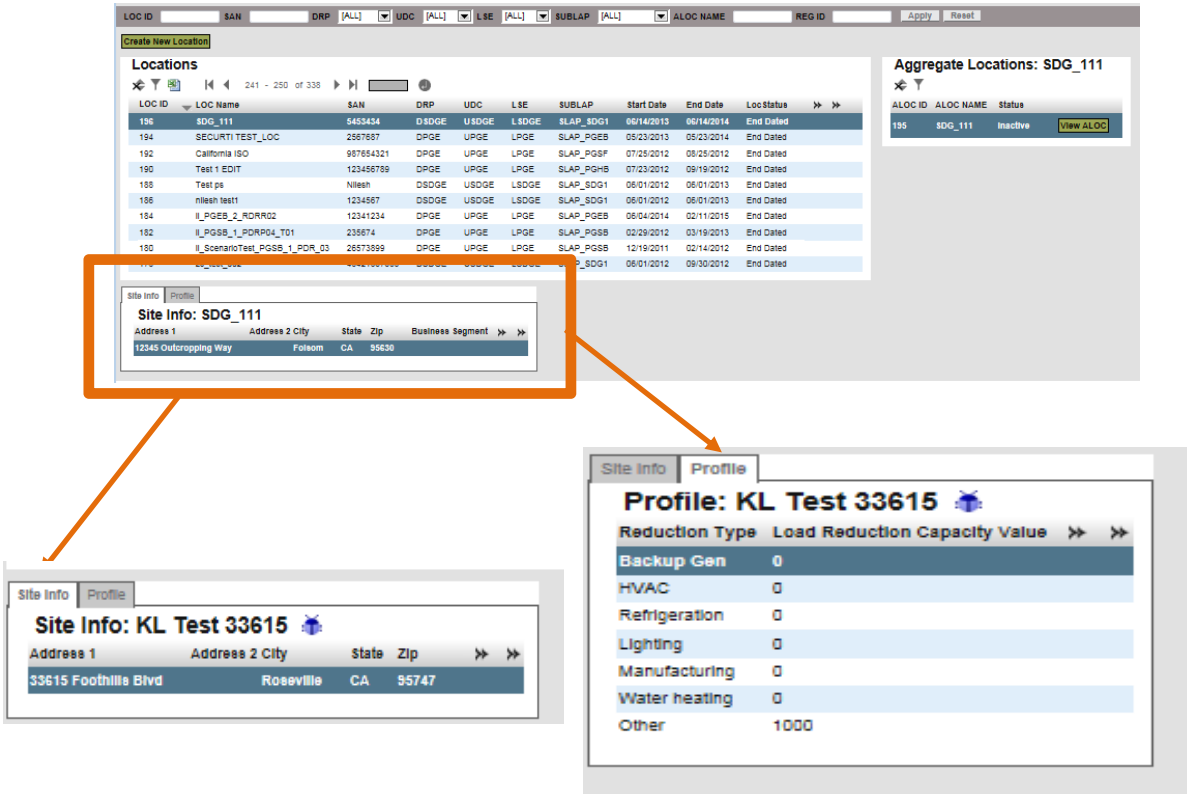
Site Info and Profile tabs

The **Site Info** and **Profile** tabs are located under the *Locations* section.



Site Info tab contains a summary of the address that is associate to the location.

Profile tab contains a summary of the Reduction Type associated to the location.

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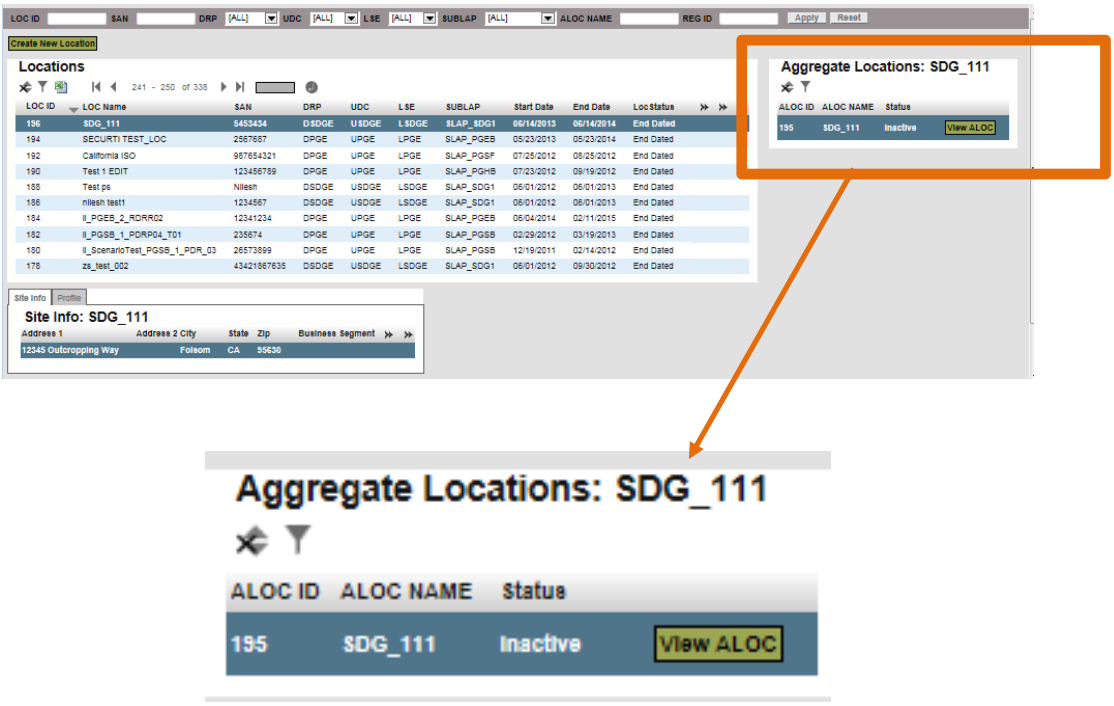
Aggregate Locations Summary tab

In the Locations view, the grid to the right of the Locations status view is the Aggregate Locations summary. This section contains information on the ALOC ID, ALOC Name, and Status.



Note: User(s) can click on the **View ALOC** button to open up a list of locations that are associated to this specific ALOC.

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Location Status Lifecycle

DRRS Status	
Location	**ALOC**
1. Participating Active **2. Participating Inactive** **3. Non-Participating** **4. End-Dated**	1. Active 2. Inactive 3. New 4. Terminated

App	Status	Description
DRRS	Participating Active	Location will be set to this status when it is associated to an ALOC that is part of an active registration in DRS.
	Participating Inactive	Location will be set to this status when it is associated to an ALOC that is not part of any active registration in DRS.
	Non-Participating	Location will be set to this status when it is not associated to any ALOC in DRRS.
	End-Dated	Location will be set to this status when the effective date of the location is prior to the current date. End-dated locations are typically associated to records that have been deleted.
	Active	ALOC location will be set to this status when it is associated to an active registration in DRS.
	Inactive	ALOC location will be set to this status when it is not associated to an active registration in DRS.
	New	ALOC location will be set to this status when it is neither active or inactive and is not part of any registration in DRS.
	Terminated	ALOC location will be set to this status when the location has been End Dated

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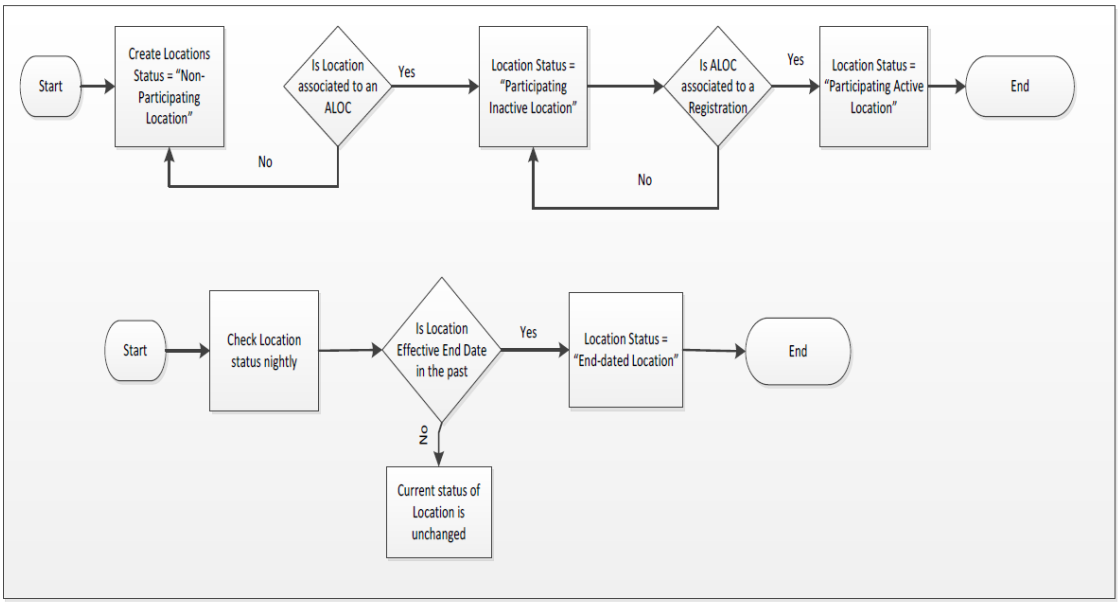
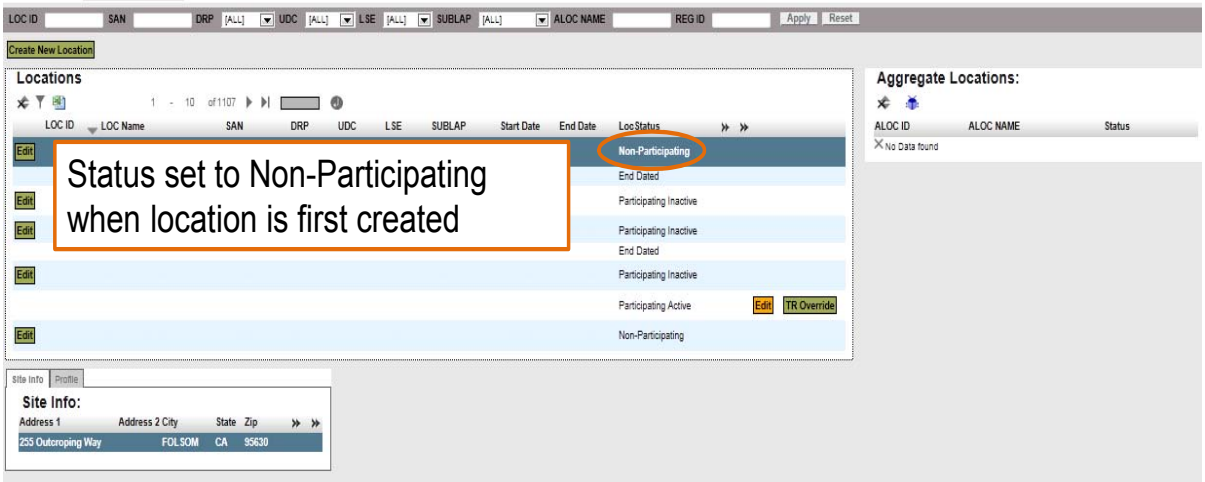


Note: When the location is first created, the status is set to ***Non-Participating***. A location is said to be a Non-Participating location if it does not belong to an aggregate location. Once it is added to an aggregate location, the status will change to ***Participating Active*** if it belongs to an ALOC that is part of an active registration. If it belongs to an ALOC that is not part of an active registration, it will change to ***Participating Inactive.***



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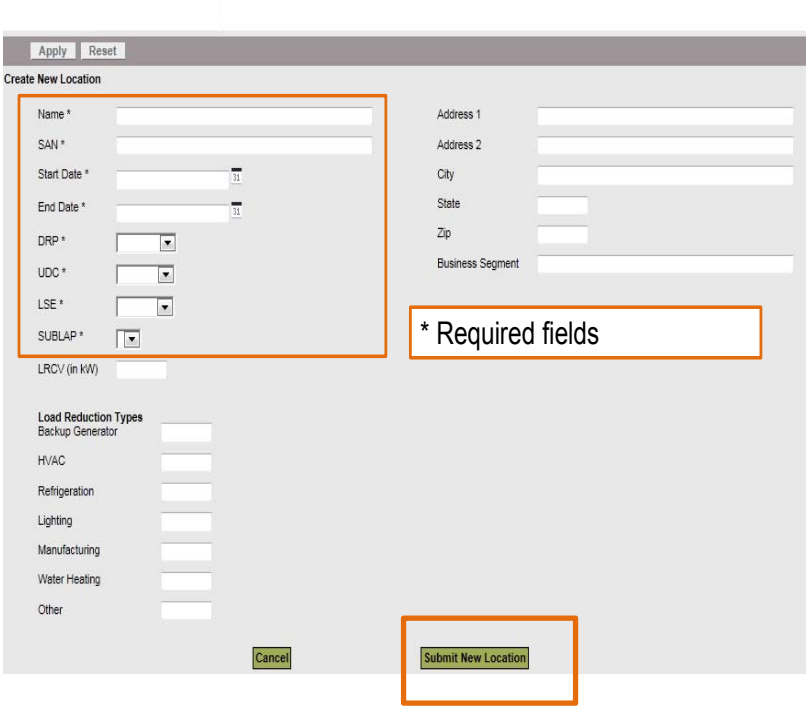
Creating a New Location (Loc)

To create a new location, user(s) will click on the Create New Location button on the Locations tab.

Next, enter the location information. The required fields are indicated by the asterisk (*) signs. Fill out all required fields and any optional fields as needed and click on the Submit New Location button.



Name – Name of the designated location

SAN – Service Account Number assigned by the UDC. Dashes or any other special characters are not allowed for the location SAN.

Start Date – The Start Date cannot be a prior date or overlap with an existing registration for the same location.

End Date – The End Date cannot be a prior date.

DRP – Designated Demand Response Provider.

UDC – Designated Utility Distribution Company

LSE – Designated Load Serving Entity

SubLAP - The SubLAP in which all the locations within the registration reside. The choices in the SubLAP are determined by the Start/End Dates.

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Note: Prior to DRRS, locations were created/copied in DRS. The BUS Pnode was part of the location creation in DRS. However, this is not a required field in DRRS as the data is not consumed.

At this time, the data is not systematically used within the current process in DRRS; however, this functionality may be added at a later time. Until then, if a custom Resource ID is requested for a registration, the PDR coordinator will request the following information:

Pnode and distribution factors shall be provided by the DRP for the Full Network Model build process. A template will be supplied to the DRP to initiate the processing of the request for a custom resource ID.

The LSE/UDC will not be required to validate the information from the DRP that is used to set up the custom resource ID. This information will be shared only between ISO and DRP as it is used only for ISO modeling purposes. The ISO is assuming that DRP is providing accurate information based on their tariff obligation to do so.

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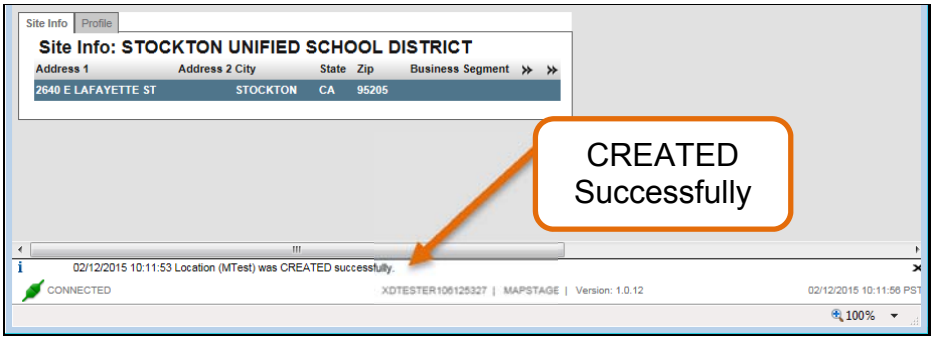
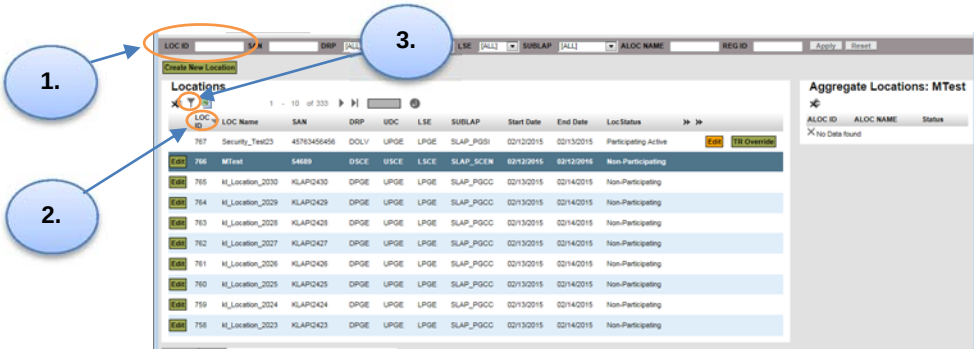
Once the new location information has been submitted, a new ***Location ID (LOC ID)*** will be generated. The LocStatus will be displayed as ***Non-Participating***.

A ***confirmation*** will be visible at the bottom of the screen. The confirmation will reflect the date along with the timestamp of when the location was submitted and if was created successfully.



To retrieve the location that was newly created, users can do the following:

1. Enter the LOC ID in the search parameter located at the top of the screen, or
2. Click on the LOC ID column headers to sort from descending to ascending, or
3. Use the inline filter option.



The inline filter works as a toggle. Click the icon to filter data based on the content of a particular column. Press Enter after inputting the filter criteria. Please note that wildcard symbols can be used in this column but are not necessary.

The next step is to associate the location by creating an aggregate location.

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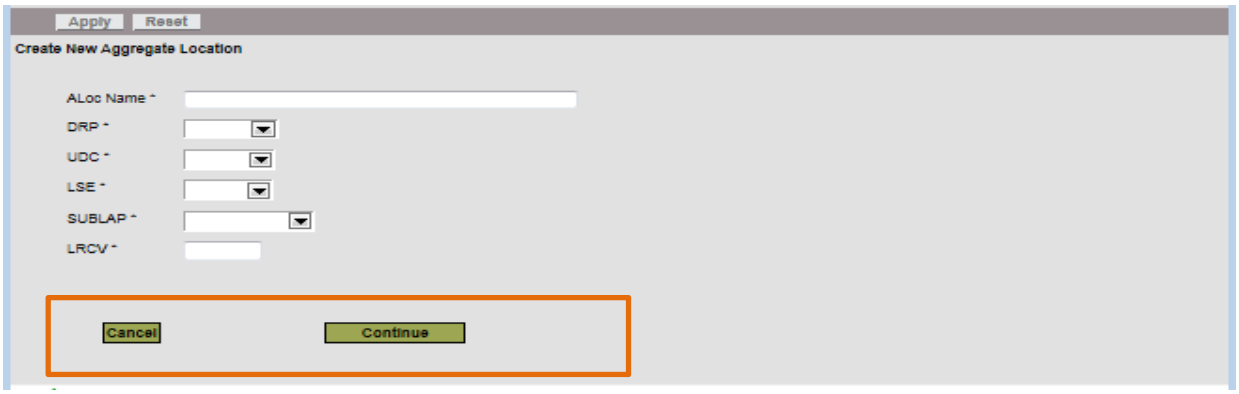
Create Aggregate Locations (ALOC)

To create an aggregate location (ALOC), user(s) will click on the Create New ALOC button.

Each field must be filled out as it is required. After the information has been entered, submit the information by clicking on the Continue button, which will trigger the system to generate a new ALOC ID. Please note that the Aggregation Location Status will be changed to ***New***.



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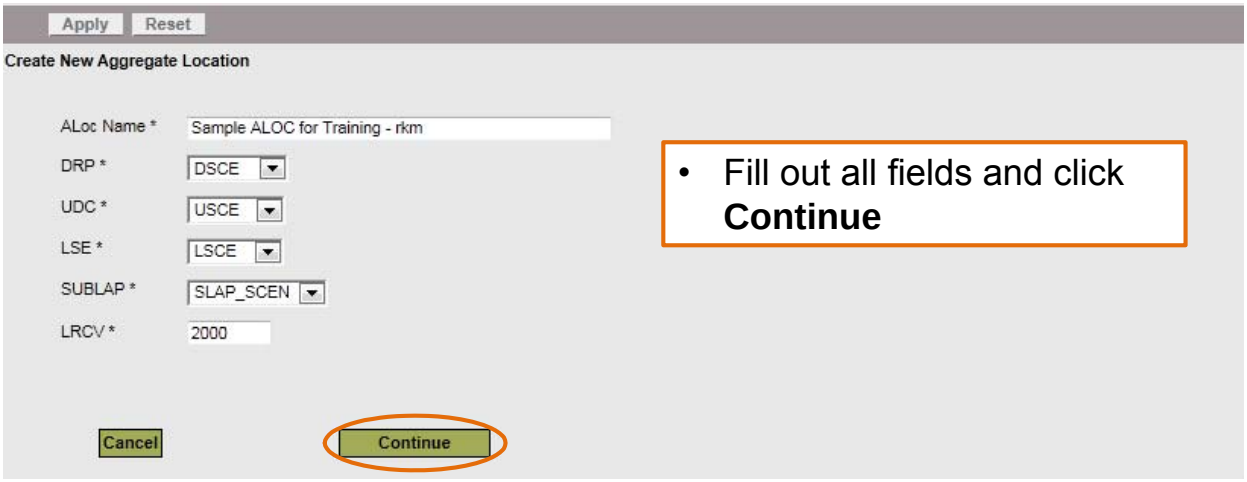

If the submission was successful, user(s) will see the confirmation at the bottom of the screen.

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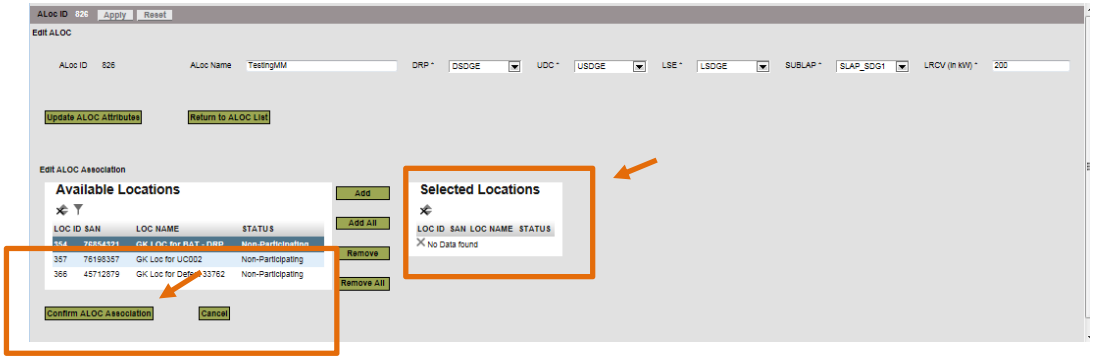
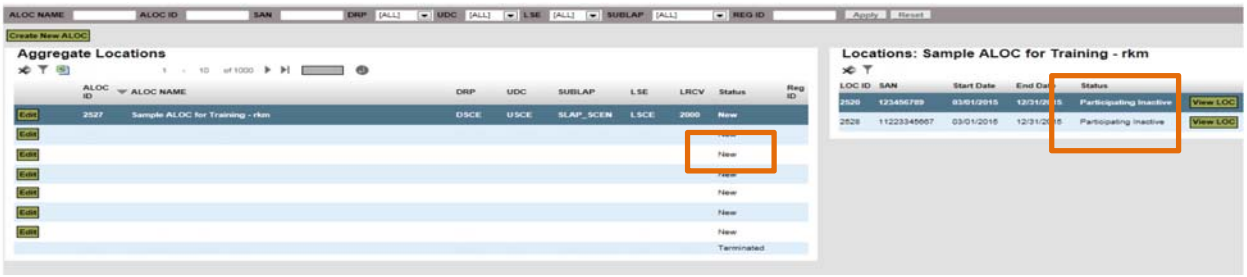
Associating a Location to an Aggregate Location (ALOC)

After the creation of an ALOC, user(s) will need to associate location(s) to the ALOC.



All the locations that match the combination of DRP/UDC/LSE/SUBLAP criteria will be shown in the ***Available Location*** panel.

User(s) can click **Add** or **Add All** to select available locations. This will move the available location(s) to the ***Selected Locations*** panel. Once the locations have been selected, user(s) will need to click **Confirm ALOC Association** to continue. Please note that the ALOC status will update its status to ***New*** upon creation. Location will update its status to ***Participating Active*** when added to a new ALOC.



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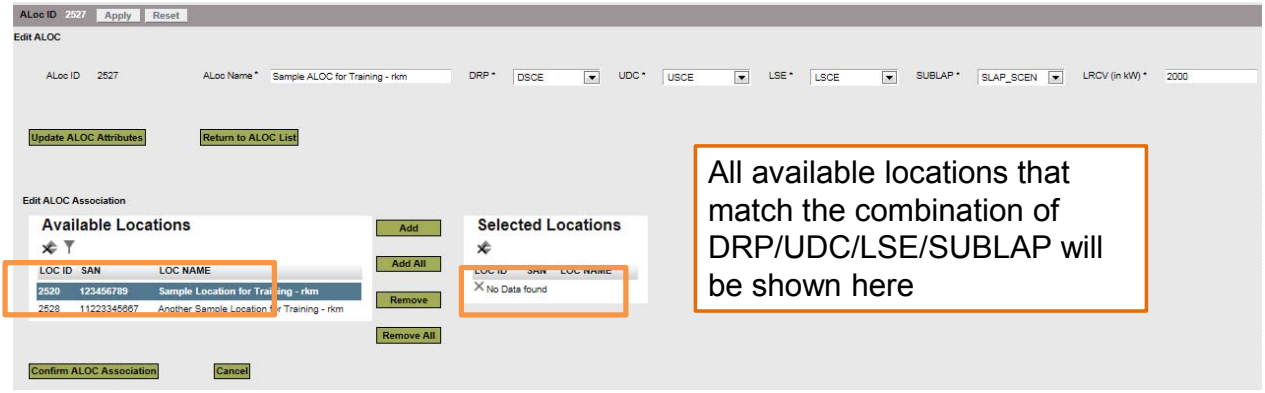
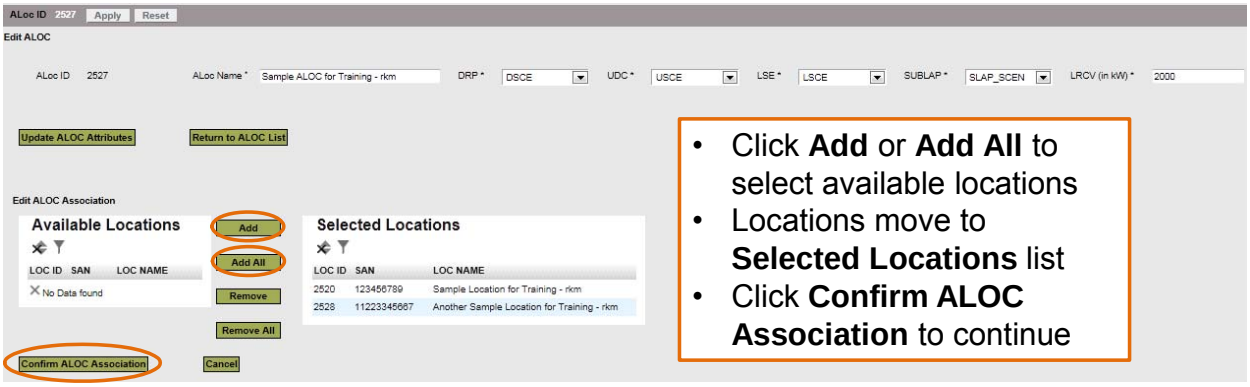
User(s) can select the locations listed under the ***Available Locations*** panel and then click Add to transfer it over to the ***Selected Locations*** panel.





Once the locations have been selected, click on Confirm ALOC Association to move on to the next step.

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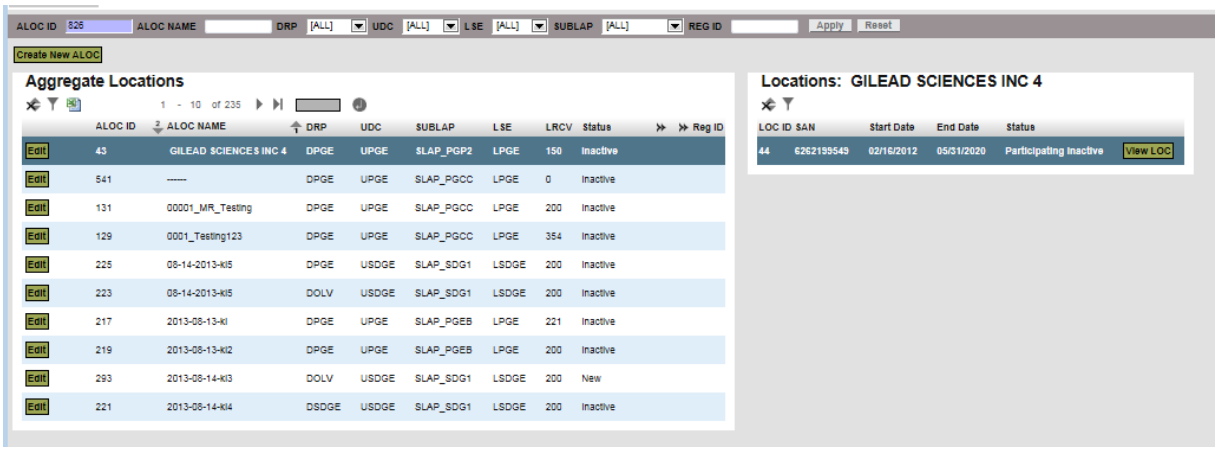
Please note that user(s) will be brought back to the Aggregate Locations main page. To bring up the newly created ALOC, user(s) can type in the ALOC ID in the search parameter field or use the inline filter to sort by ALOC ID.


ALOC ID 826
ALOC NAME
DRP [ALL]
UDC [ALL]
LSE [ALL]
SUBLAP [ALL]
REG ID
Apply
Reset
Create New ALOC
Aggregate Locations
1 - 10 of 235
ALOC ID
ALOC NAME
DRP
UDC
SUBLAP
LSE
LRCV
Status
Reg ID
Edit 43 GILEAD SCIENCES INC 4 DPGE UPGE SLAP_PGP2 LPGE 150 Inactive
Edit 541 ------ DPGE UPGE SLAP_PGCC LPGE 0 Inactive
Edit 131 00001_MR_Testing DPGE UPGE SLAP_PGCC LPGE 200 Inactive
Edit 129 0001_Testing123 DPGE UPGE SLAP_PGCC LPGE 354 Inactive
Edit 225 08-14-2013-KI5 DPGE USDGE SLAP_SDG1 LSDGE 200 Inactive
Edit 223 08-14-2013-KI5 DOLV USDGE SLAP_SDG1 LSDGE 200 Inactive
Edit 217 2013-08-13-KI DPGE UPGE SLAP_PGEB LPGE 221 Inactive
Edit 219 2013-08-13-KI2 DPGE UPGE SLAP_PGEB LPGE 200 Inactive
Edit 293 2013-08-14-KI3 DOLV USDGE SLAP_SDG1 LSDGE 200 New
Edit 221 2013-08-14-KI4 DSDGE USDGE SLAP_SDG1 LSDGE 200 Inactive
Locations: GILEAD SCIENCES INC 4
LOC ID SAN Start Date End Date Status
44 6262199549 02/16/2012 05/31/2020 Participating Inactive View LOC

Below is an example of what the search will look like if you use the search parameter to look up the ALOC ID. Please note that the Aggregation Status continues to remain listed as ***New*** since it is not currently associated to a registration. The Location Status on the other hand will changed from Non-Participating to ***Participating Inactive***.

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Demand Response System (DRS)

The Demand Response System (DRS) will manage the registration process and Meter Data submission, and will calculate a Demand Response Energy Measurement for PDR and RDRR. Access to the system will require prior authorization and a digital certificate. Due to the nature of the transactions performed by the DRP and Scheduling Coordinator in the CAISO Markets, the CAISO must have the ability to perform authentication and authorization for users. This requires a very specific process to obtain user access to CAISO systems. Therefore, the DRP and the SC must have their external point of contact on record with the CAISO. Through the external point of contact, the DRP and SC can request access to the needed system by submitting the User Application Access Request Form which can be found on the CAISO's information security page under the reference tab of the operations center on the CAISO Website. Access to the Demand Response System will be granted based on the information provided in the User Application Access Request Form

Since both the LSE and UDC for the underlying Load customers of a PDR or RDRR need the ability to review the appropriate Load customer information during their registration process, the CAISO will need to maintain a list of the responsible individuals from the LSEs and UDCs that will perform the review of registration details in the Demand Response System. To ensure timely reviews, the CAISO will request that the LSEs and UDCs provide their contact information for the individuals that will perform the reviews.

The CAISO requests that, prior to entering their registration location information into the Demand Response System; Demand Response Providers contact the CAISO to ensure that the LSE of record for their registration locations already has access to the Demand Response System. If not, the DRP will need to provide the LSE contact information to the PDR coordinator at pdr@caiso.com.

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User Roles

There are eight (8) different types for user roles for this application.

LDAP Permission Name	UI Permission Name	Description
app_drs_read_registration	Read Registrations	View location and Registration data
app_drs_read_meterdata	Read Meter Data	View meter data
app_drs_read_settlement	Read Settlements	View event and performance and compliance data
app_drs_manage_all	Read All	View Registrations, events, performance and meter data
app_drs_manage_registration	Manage Registrations	Manage locations and Registrations
app_drs_manage_settlement	Manage Settlements	Manage event and settlement data
app_drs_manage_meterdata	Manage Meter Data	Manage meter data
app_drs_manage_all	Manage All	Manage Registrations, events, settlements and meter data

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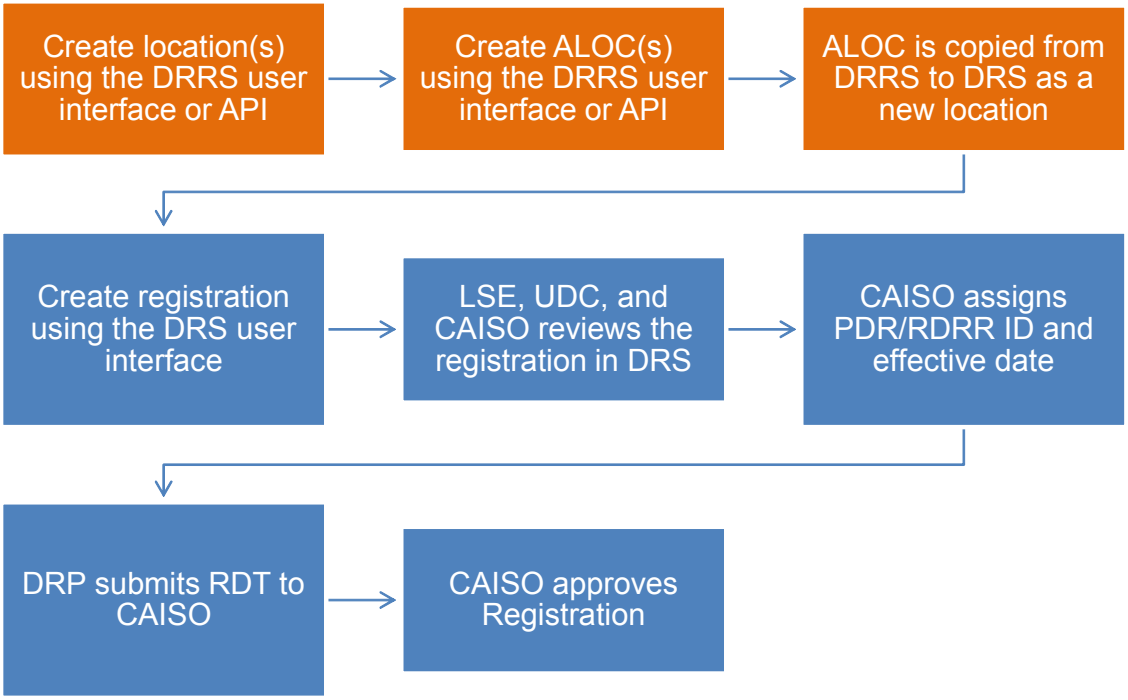
Below is a flowchart that describes the current flow of the new process.


Create location(s) using the DRRS user interface or API
Create ALOC(s) using the DRRS user interface or API
ALOC is copied from DRRS to DRS as a new location
Create registration using the DRS user interface
LSE, UDC, and CAISO reviews the registration in DRS
CAISO assigns PDR/RDRR ID and effective date
DRP submits RDT to CAISO
CAISO approves Registration

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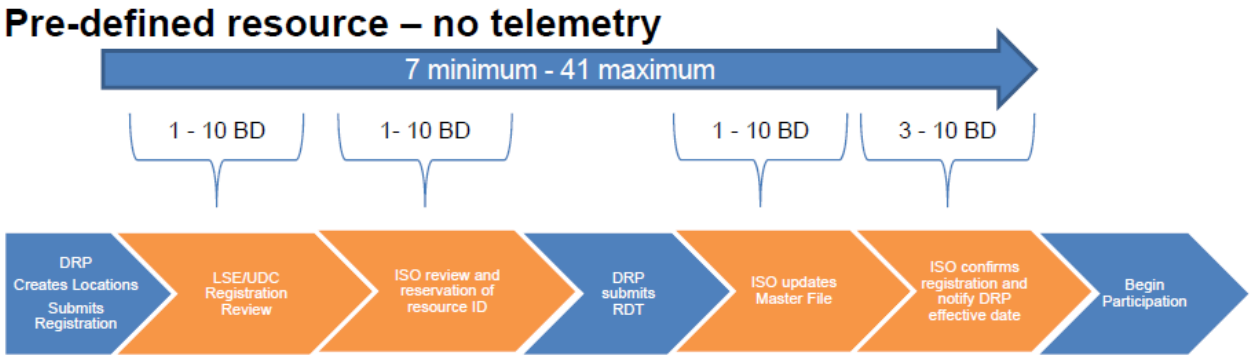
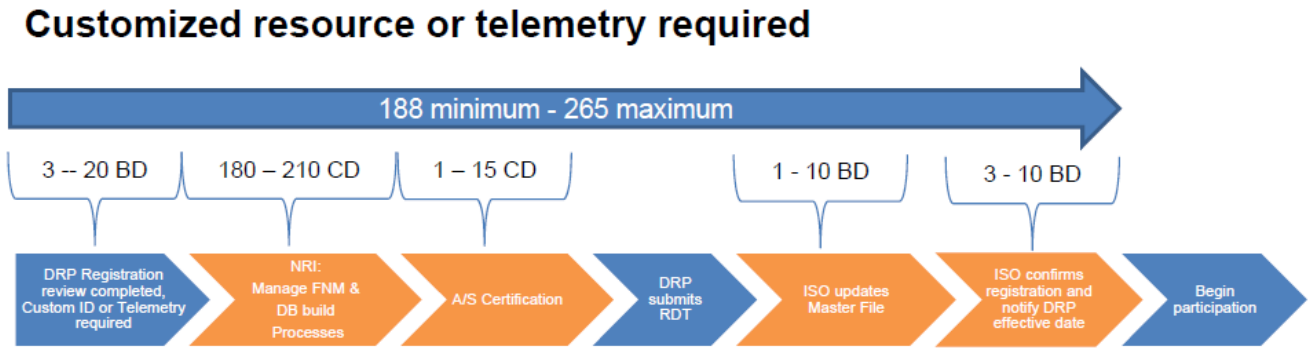
Resource Registration to Participation Timeline


Pre-defined resource – no telemetry
7 minimum - 41 maximum
1 - 10 BD
1- 10 BD
1 - 10 BD
3 - 10 BD
DRP Creates Locations Submits Registration
LSE/UDC Registration Review
ISO review and reservation of resource ID
DRP submits RDT
ISO updates Master File
ISO confirms registration and notify DRP effective date
Begin Participation


Customized resource or telemetry required
188 minimum - 265 maximum
3 -- 20 BD
180 – 210 CD
1 – 15 CD
1 - 10 BD
3 - 10 BD
DRP Registration review completed, Custom ID or Telemetry required
NRI: Manage FNM & DB build Processes
A/S Certification
DRP submits RDT
ISO updates Master File
ISO confirms registration and notify DRP effective date
Begin participation

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Obtaining a *Demand Response Provider (DRP) ID* for the Demand Response System

Once the Demand Response Provider Agreement (DRPA) has been executed, the following shall occur:

1. DRP shall submit a DRP ID request form to CAISO at pdr@caiso.com. The DRP ID request form can be found at http://www.caiso.com/participate/Pages/Load/Default.aspx.

2. After the DRP ID request form has been reviewed and approved, CAISO shall assign a new DRP ID. If the request is denied, CAISO will contact the requester to request for further information.

3. Notification of the newly assigned DRP ID will be sent to the requester via e-mail along with instructions and link to the CAISO Application Access Point of Contact (POC) Establishment and Change Form.

4. Once the POC form has been submitted, the User Application Access Request Form (AARF) will need to be completed and submitted by the DRP. This will allow the DRP to obtain access to the Demand Response System (DRS). Note: Additional system access information, including the AARF, is available on the CAISO website.

Obtaining an *Load Serving Entity (LSE) ID* for the Demand Response System

To obtain an LSE ID, LSE shall follow the same steps similar to the DRP ID request process listed above in steps 1-4.

Obtaining an *Utility Distribution Company (UDC) ID* for the Demand Response System

To obtain a UDC ID, UDC shall follow the same steps similar to the DRP ID request process listed above in steps 1-4.

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Resource Registration

PDR and RDRR Resource ID

The PDR and RDRR Resource ID is a CAISO-assigned Resource ID that represents a Proxy Demand Resource or Reliability Demand Response Resource in the CAISO Markets. The Resource ID will be used to bid, schedule, receive an award, receive Automated Dispatches System (ADS) instructions and be settled in the CAISO Markets. There are certain steps that must be accomplished by the DRP, LSE, UDC, and CAISO before the CAISO can assign a PDR or RDRR Resource ID. The following explains the different types of Resource IDs and describes the application, review, and assignment steps.

Registration versus Resource ID Relationship

- Both pre-defined and custom Resource IDs will have a 1:1 relationship with a current registration.
- The CAISO is planning to phase in the establishment of business rules which will provide for the capability of a PDR or RDRR Resource ID to have a "1: many" relationship with current registrations.

Applying for a PDR or RDRR Resource ID using the Demand Response System Registration Process

Resource IDs: pre-defined and custom resources

There are two types of Resource ID setups that can be used in the CAISO Markets for PDR and RDRR, those comprised of pre-defined resources and those comprised of custom resources. The use of pre-defined resources allows for quicker assignment of the DRP's Resource ID. The use of custom resources requires modifications to the Full Network Model and therefore could have a timeline of up to 120 – 180 days for a DRP to apply for and receive a custom Resource ID for use. The Resource IDs will look similar to this example:

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- Pre-defined: PGSA_1_PDRP01, where PGSA represents the location of the demand response by Sub-LAP
- Custom resource: PRMNTE_6_PDRC01

Pre-defined resources use pre-established Generation Distribution Factors (GDFs) to allocate the PDR or RDRR performance (generation) to the associated APNodes of the Sub-LAP. A custom PDR or RDRR will be designed using historic Demand data (provided by the DRP) for the specific network buses to calculate a unique GDF. For both pre-defined and custom resources, the GDFs will remain static.

PDR and RDRR Resource ID criteria

All PDR and RDRR Resource IDs will be associated to the end use Loads represented by the DRP based on:

- The physical location, and
- The Load Serving Entity (LSE) of individual end use Loads.

Therefore, prior to applying for a Resource ID(s), the DRP must know which Sub-LAP the end use Loads are in and which LSE (and the LSE's SC) serves the end use Load. This information should be available to the DRP based on the requirement that it must have contractual relationships with the end-use customer, LSE, and UDC. When requesting a Resource ID, the DRP should group its end use Loads by both the LSE and Sub-LAP.

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Example 1 (applicable for a PDR or RDRR): A DRP has 6 End Use Loads and would like to register them to the minimum number of Resource IDs possible. What would be the minimum number of pre-defined Resource IDs that the following locations could be registered to?

Customer	LSE	Sub-LAP	DR Resource ID
1	A	SDG1	PDRP01
2	A	SDG1	PDRP01
3	B	PGF1	PDRP02
4	B	PGF1	PDRP02
5	B	PGSA	PDRP03
6	B	SDG1	PDRP04

Answer to Example 1: Four pre-defined Resource IDs would be the minimum assigned to the DRP because the locations represent 4 different LSE and Sub-LAP combinations.

Applying for a Custom Resource ID

If the DRP believes that the pre-defined Resource IDs are not sufficient for its needs, the DRP could request a custom Resource ID. The DRP would have to identify the location of the end use customer Loads by bus (which must be in the same Sub-LAP and represented by the same LSE) and provide sufficient historic Load data to demonstrate the appropriate allocation that will be required for the identification of static unique GDFs. This information needs to be provided to the CAISO well in advance of receiving a Resource ID. In addition to the internal analysis for the creation of the GDFs, the characteristics of the custom PDR or RDRR must be identified in the Full Network Model and require a modification to it. The Full Network Model is modified approximately every 12 weeks.

Example 2 (applicable for a PDR or RDRR): A DRP requests a custom Resource ID for 4 end use Loads that have the same LSE and are located in the same Sub-LAP. Based on historic Load of these 4 end use customers, 80% of the Load is connected to Bus 1 and 20% of the Load is connected to Bus 2. In

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this example there are two active registrations linked to a single Resource ID. Currently, the CAISO is only allowing a one-to-one relationship between registration and Resource ID. In the future that will change to a "one-to-many" relationship. Here is how it will look:

Customer	LSE	Sub-LAP	Location	Registration	GDF	Custom DR Resource ID
1	A	PGF1	Bus 1	Reg 01	0.8	PRMNTE_6_PDRC01
2	A	PGF1	Bus 1	Reg 01		PRMNTE_6_PDRC01
3	A	PGF1	Bus 2	Reg 02	0.2	PRMNTE_6_PDRC01
4	A	PGF1	Bus 2	Reg 02		PRMNTE_6_PDRC01

Requesting a Custom Resource ID with Dynamic GDF

If approved by the CAISO to do so, a DRP may submit GDFs as part of its Bid for a given PDR or RDRR. In order to be eligible to submit GDFs as part of a Bid, the DRP must request and receive approval from the CAISO to dynamically Bid GDFs. To request a custom GDF, please contact the PDR coordinator at pdr@caiso.com with the following information: Location of bus, and total MW. The custom GDF can be deployed based on the Master File deployment cycle without the need to wait for the FNM deployment cycle *if only* the GDF's values, not the makeup of the PDR or RDRR, are changed from default CAISO values.

Registration Levels

The CAISO will provide the ability to allow changes to the underlying end use Load customers without having to issue a new Resource ID to the DRP. Registration levels were created to allow flexibility for the DRP to revise its end use customers associated with a PDR or RDRR, without having to request a new Resource ID. The registration level will also allow easier application of the baseline, as will be explained below. The key aspect of the registration level is that the meter data for both the baseline and the

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event day will need to be submitted to the CAISO at the registration level of the Resource ID.

The Demand Response System will allow the DRP to create registrations. These registrations must maintain the same standards as the overarching PDR or RDRR with underlying Load represented by the same LSE and located in the same Sub-LAP. Each registration must represent participation in the same market(s), and for a RDRR the registration must have the same real-time dispatch option (marginal or discrete) and seasonal term designation. Additional granularity is required for the physical locations of a registration. The location should contain the end use customers that are on the same bus in the Sub-LAP. The Demand Response System uses the term "location" to identify the end use customer data and bus location. In addition, registrations will have defined start and end dates. This will allow for ongoing changes to occur at the registration level with limited impact to the effective date of the PDR or RDRR in the Master File. Master File effective dates and PMax will only need to change when the new registration's reduction capacity is less than the current Master File PMax, or the DRP wants to change the current PMax to increase resource capacity. Any Master File update may take 10 business days to implement.

> Example 3 (applicable for a PDR only): A DRP has originally 4 customers all with the same LSE and located in the same Sub-LAP and aggregated to one PDR Resource ID (PDRP01). The PDR Resource ID became effective in the CAISO markets on April 1, 2010. The DRP receives the approvals for adding 2 additional customers to the PDR Resource ID (same LSE and located in the same Sub-LAP) starting July 1, 2010. The DRP will create a second registration as shown below.

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Customer	LSE	Sub-LAP	Registration	PDR Resource ID	Registration Start date	Registration End date
1	A	PGF1	Reg 01	PDRP01	04/01/10	06/30/10
2	A	PGF1	Reg 01	PDRP01		
3	A	PGF1	Reg 01	PDRP01		
4	A	PGF1	Reg 01	PDRP01		
1	A	PGF1	Reg 02	PDRP01	07/01/10	12/31/10
2	A	PGF1	Reg 02	PDRP01		
3	A	PGF1	Reg 02	PDRP01		
4	A	PGF1	Reg 02	PDRP01		
5	A	PGF1	Reg 02	PDRP01		
6	A	PGF1	Reg 02	PDRP01		

Note: In this example you see that the PDR Resource ID stayed the same. The Meter Data required for the baseline must represent the registrations and their timeline. So by 07/01/10 (or an event thereafter), the DRP will need to submit to the CAISO the appropriate historic data for Registration 02 so that the baselines can be properly calculated for future event dates after July 1.

For RDRRs, the DRS will not allow a DRP to delete registrations during a Reliability Demand Response Services Term (winter/summer) once the registration has been approved. The approved registration and underlying end use load customers constituting the registration must remain in effect and tied to the RDRR Resource ID until the end of the Reliability Demand Response Services Term. Therefore, currently once a registration is created for a RDRR Resource ID its registration and end use load customer composition will remain the same until the end of the term. However, upon implementation of the "1:many" registration functionality and business practice for PDR and RDRR, additional locations may be added to a RDRR Resource ID during a seasonal term by adding a new registration as represented in the following example:

Example 4: (applicable for a RDRR upon implementation of one Resource ID to many registrations capability): A DRP has originally 4 customers all with the same LSE and located in the same Sub-LAP and aggregated to one Resource ID (PDRP02). The

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Resource ID with original registration became effective in the CAISO markets on April 1, 2014 start of summer season and is participating for the summer Reliability Demand Response Services Term only with a Discrete Real-Time Dispatch Option for that term. The DRP receives the approvals for adding 2 additional customers to the Resource ID (same LSE and located in the same Sub-LAP) starting July 1, 2014. The DRP will create a second registration as shown below with additional customers.

Customer	LSE	SUB-LAP	Registration	RDR ResID	Term	Discrete	Start date	End date
1	A	PGF1	Reg 01	PDRP02	S	Y	4/01/14	09/30/14
2	A	PGF1	Reg 01	PDRP02	S	Y		
3	A	PGF1	Reg 01	PDRP02	S	Y		
4	A	PGF1	Reg 01	PDRP02	S	Y		
5	A	PGF1	Reg 02	PDRP02	S	Y	7/01/14	09/30/14
6	A	PGF1	Reg 02	PDRP02	S	Y		
7	A	PGF1	Reg 02	PDRP02	S	Y		

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Information Required When Applying for a Resource ID

During the registration process for obtaining a PDR or RDRR Resource ID, the DRP must provide specific information about the end use Loads involved in the Demand response. This information is needed to allow the LSE, UDC, to review the location information and the CAISO to approve the assignment of the PDR or RDRR Resource ID. This information will be:

- Customer name (required field)
- Service address (required field)
- Service city (required field)
- Sub-LAP location (required field)
- Bus location (suggested for all but required field for Custom Resource only)
- UDC service account number (required*) Note: a location, identified by its UDC service account number, cannot be registered to both a RDRR and a PDR for the same trading day.*
- LSE (required field)
- LSE's Scheduling Coordinator (suggested for DRP to provide, required field for LSE to verify or provide)
- Profile information - load type, load reduction (required field)
- The ALOC functionality will fully replace the concept of pseudo locations. Existing Pseudo locations would be converted to both a location and an ALOC in DRRS.
- For PDR, each registration must have a minimum of 100 KW of load reduction.

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Additionally, for RDRR the following requirements apply:

- Each registration must choose the Reliability Demand Response Services Term for which it will remain active (summer, winter or both).
- Each registration must have a minimum of 500 kW of load reduction.
- Each registration may choose a Discrete Real-Time Dispatch Option and this selection must remain consistent across registrations. Additionally, non-selection defaults RDRR to the Marginal Real-Time Dispatch Option which must remain consistent across registrations.
- The maximum load curtailment for a resource that selects the Discrete Real-Time Dispatch Option shall be no larger than 50 MW. There is no maximum for RDRR selecting the Marginal Real-Time Dispatch Option.
- Each RDRR must reach its maximum load curtailment within forty (40) minutes after it receives a Dispatch Instruction, and must be capable of providing Demand Response Services for at least four (4) consecutive hours per Demand Response Event.
- Each RDRR must have a minimum run time of no more than one (1) hour.

Once a RDRR is approved, its registration and end use load customer composition will remain the same until the end of the Reliability Demand Response Services Term. The

- DRS will not allow the registration to be deleted, nor will it allow underlying end use load customers to be added as part of another RDRR or PDR registration until the start of the next Reliability Demand Response Services Term.

Once the DRP has completed entering all information appropriately, it must submit the completed registration for approval by the CAISO. As part of the submitted registration review process, both the appropriate LSE and UDC, as designated by the DRP, will have an opportunity to review the DRP's registration and provide comments if they see any issues with its detail. The LSE and UDC will have 10 business days to review the

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DRP's registration detail and provide comments as part of this review process. If either the LSE or UDC does not complete its review and provide comments within 10 business days, the request will automatically reflect a "Review Complete" status from that entity and move to the CAISO for final review and approval.

During the registration review process, if either the LSE or UDC identifies registration detail that appears to be in error, it may identify these errors and provide the CAISO with additional information as to how the errors might be corrected. This information must be provided to the CAISO as comments when signifying a "reviewed complete" status for any registration submitted to the LSE and UDC for review during the 10 business day review timeframe.

A final registration review is performed by the CAISO of all of a DRP's registration detail, taking into consideration any comments received as a result of the LSE and UDC review process. If the CAISO determines that there is error in the registration detail that needs to be corrected by the DRP, the registration will be denied as a means to alert the DRP of corrective actions that are being requested by the CAISO. If the CAISO determines the registration detail is complete and accurate, the registration will be locked and the DRP will not be able to modify it. The CAISO will send the DRP a Generation Resource Data Template (RDT) containing the assigned PDR or RDRR Resource ID. The DRP completes and submits the RDT following the current RDT process (see RDT process at www.caiso.com). This is an established process used to provide the operational characteristics of the PDR or RDRR so that the Resource ID can be created in the Master File and made valid for market participation. Following the Master File update the registration will be approved and the DRP will be notified as to the effective date of the resource.

In the event that a registration contains location information already included in another active registration, an alert shall be given to the incumbent DRP and PDR coordinator. The PDR coordinator will contact the DRP of record to enable the defense of that location. If the DRP of record is unavailable or takes no action, the existing registered location shall be considered abandoned and made inactive in order to allow the new registration to become active. The time period for the DRP of record's defense shall be 10 business days.

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Additionally, the CAISO has included a compliance procedure that will help to identify those using the Demand Reponses System inappropriately. Inappropriate action includes, but is not limited to, the continual submission of Locations that are in use and already designated by another Demand Response Provider. The following illustrates the process used when duplicate locations are attempted to be registered within the DRS.

Customer Baseline

A Customer Baseline will be calculated by the DRS as a value or values based on historical Load meter data in order to measure the delivery of Demand Response Services. The Customer Baseline establishes a method for setting a customer's baseline load, an estimate of how much electricity a customer would have used had it not reduced its use in response to Day-Ahead and Real-Time prices. The Customer Baseline of a PDR is compared against its actual Load for a Demand response event in order to calculate the PDR Energy Measurement.

The following section specifies the methodology employed to calculate the Customer Baseline for determination of PDR or RDRR performance.

Customer Baseline Methodology

- 10 in 10 non-event day selection method (an average of the load in the last 10 eligible days)

Customer Baseline Window

- The Customer Baseline window for Meter Data will be 45 calendar days from which the 10 most recent eligible days will be selected.
- The selection of Customer Baseline data will include a number of the most recent days, excluding different day-types and previous events days (definitions below)
- Two different day-types will be supported:
    - Weekday (Monday through Friday)

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- Weekend/Holiday (Saturday, Sunday, or any NERC holiday)

A previous event day is a day on which there was either a PDR event, a RDRR event, or an Outage recorded in OMS. Previous event days are specific to the PDR or RDRR. The following table specifies under which conditions a PDR or RDRR is considered to have an "event day".

Market Participation	Status	Event Day
Day-Ahead Schedule	yes	yes
Real Time Energy Dispatch	yes	yes
AS Capacity Award only *(PDR only)*	yes	no
AS Energy Dispatch *(PDR only)*	yes	yes
RUC Capacity Award only	yes	no
Outage	yes	yes
Non-CAISO Reliability Dispatch *(RDRR only)*	yes	yes

- The selection of Customer Baseline days is performed by iterating backward through the acceptable days prior to the event day.
- Once the target number of days is reached, selection ends.
- If the target number of days is not reached, but the minimum number of days is reached, the Customer Baseline is calculated on the selected days (see below).
- If the minimum number of days is not reached, the highest usage prior event days within the Customer Baseline window will be used to reach the minimum number of days. The highest usage event days are defined as the highest totalized load for the resource during event hours.
- Target & minimums are defined as:

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	Weekday	Weekend/Holiday
Target	10	4
Minimum	5	4

- There is no elimination for “abnormally low” or “abnormally high” usage days.
- The Customer Baseline shall be calculated as a simple hourly average of the selected days’ Meter Data. (*Note: five-minute Meter Data received for the selected days will be converted to hourly data for the purposes of calculating the Customer Baseline, as calculation is based on the average MWh consumption for each hour of the event period across all the selected days).*
- The Customer Baseline will be calculated at the registration level to facilitate versioning of the underlying customers in a registration.

Load Point Adjustment

- The Customer Baseline calculation will include a symmetric multiplicative adjustment, *morning adjustment*, unless otherwise requested by the DRP and approved by the CAISO.
- The multiplier will be calculated by averaging at the 4 hours prior to the event, excluding the hour immediately prior to the event start and defined as the ratio of the average load for these 3 hours relative to the same 3 hour average of the Customer Baseline calculation data set. The same multiplier will be applied to each hour of the event.
- The multiplier will be capped at both a 20% increase (load ratio = 1.2) and a 20% decrease (load ratio = 0.8).

  The following provide various Load Point Adjustment examples:

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Example 7: Event Day/Hour: August 15, 2010 – HE 16

Load	Meter	Raw Baseline
HE12	11	14
HE13	10.2	14.2
HE14	12.5	15.5
Average	**11.23**	**14.57**

Load Point Adjustment Ratio = PDR or RDRR Meter/Raw Baseline= 11.23 / 14.57

= .7707 or 77.07%

= 80%

Load Point Adjustment uses a floor of 80% as multiplier against raw Customer Baseline to establish adjusted Customer Baseline

Example 8: Event Day/Hour: November 15, 2011 – HE 16

Load	Meter	Raw Baseline
HE12	18	15
HE13	19.2	15.2
HE14	20.75	16.5
Average	**19.32**	**15.57**

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Load Point Adjustment = Meter/Raw Baseline

= 19.32 / 15.57

= 1.24 or 124%

= 120% Load Point Adjustment uses a ceiling of 120% as multiplier against raw Customer Baseline to establish adjusted Customer Baseline

Example 9: Event Day/Hour: August 15, 2011 – HE 12, 13, and HE18

Load	Meter	Raw Baseline
Load	Meter	Raw Baseline
HE08	16	15
HE09	16.5	15.2
HE10	17. 5	16.5
Average	**16.67**	**15.57**

Load Point Adjustment = Meter/Raw Baseline

= 16.67 / 15.57

= 1.07 or 107%

A Load Point Adjustment of 107% will be applied as multiplier against raw Customer Baseline to establish adjusted Customer Baseline for HE12 and 13.

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Load	Meter	Raw Baseline
HE14	16	17.13
HE15	16.5	17.25
HE16	17. 5	17.67
Average	**16.67**	**17.35**

Load Point Adjustment = Meter/Raw Baseline

= 16.67 / 17.35

= .96 or 96%

A Load Point Adjustment of 96% will be applied as multiplier against raw Customer Baseline to establish adjusted Customer Baseline for HE18.

Customer Baseline and Demand Response Energy Measurements – Demand Response System Calculations

The following details the calculation of raw and adjusted baselines and the Energy measurements used in the settlement of PDR or RDRR:

Baseline Variables	
r	= registration
e	= event day

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d	= historical basis day (days used for the baseline)
h	= hour (hours of the defined event)
m	= 5 minute interval (0,5,10…55)
x	= discrete AS dispatch event for a PDR
n	= number of 5 minute intervals in the specific AS dispatch event
Adjustment Variables	
s	= adjustment window size (always 3)
t	= adjustment window offset (always 2)
i	= adjustment window start hour (for the defined method, this is always min(h) – 4)
j	= adjustment window end hour (for the defined method, this is always min(h) – 2)

Baseline

A raw baseline for the registration (**r**) for a given PDR or RDRR for the event day for each event hour using the historical basis days identified through the iterative process is calculated first:

$$\text{Raw Baseline}_{reh} = (1 / (\text{count } (d)) * \sum_d \text{Load}_{rdh}$$

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Where Load is the SQMD submitted for underlying Load at the registration level for the PDR or RDRR Resource ID.

Next, the adjustment ratio is calculated which will be used for this registration for the entire event day based on the first event hour of the day. Note that **h** (the event hours) are those for the entire PDR or RDRR, and are thus the same for all underlying registrations that are effective on the event day.

$i = \min(h) - s - t + 1$

$j = \min(h) - t$

If ($i<1$)

- then $\text{Adjustment}_{re} = 1$
- else $\text{Adjustment}_{re} = \max(0.8 , \min(1.2, \sum_{h=i..j} \text{Load}_{rdh} / \sum_{h=i..j} \text{RawBaseline}_{rdh}))$

Finally, the final adjusted baseline for the registration for the event day for each event hour is calculated.

$\text{Baseline}_{reh} = \text{Adjustment}_{re} * \text{Raw Baseline}_{reh}$ (1 / (count (d)) * $\sum_{d} \text{Load}_{rdh}$

See Attachment G for PDR/RDRR Post Market Activity Example

Demand Response Energy Measurements (DR Energy Measurements)

Each registration will have its own generation curve, calculated as the difference between that registration's baseline and the Load for the registration for each event hour.

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$Energy_{reh} = Baseline_{reh} - Load_{reh}$

The PDR or RDRR totals will be based on the underlying registrations that are effective on the event day.

$DRLoad_{eh} = \sum_r Load_{reh}$

$DRBaseline_{eh} = \sum_r Baseline_{reh}$

$DREnergy_{eh} = \sum_r Energy_{reh}$

Note, DREnergy = max (0, DREnergy)

DR Energy Measurement Adjustment for Real Time

For those time periods when a PDR or RDRR was RT dispatched during the event hour and 5-minute load data has been supplied for all underlying registrations for all whole event hours, the following Real-Time adjustment will be made to the DR Energy Measurement in order to simulate a Real-Time Energy curve. SQMD in Settlement Intervals of five (5) minutes must be submitted for all whole hours in which a PDR is awarded Ancillary Services (AS) and/or a PDR or RDRR is dispatched for RT Imbalance Energy.

$DREnergy_{em} = 1/12 * DRBaseline_{reh} - \sum_r Load_{rem}$ (for each m in h)

Note, $DREnergy_{em}$ = max (0, $DREnergy_{em}$) for each m in h

The Real-Time adjustment calculates a DR Energy Measurement for each 5-minute interval by subtracting the 5 minute interval load from the pro-rated hourly baseline.

Example 9: Example of Real-Time UIE adjustment for a resource in Interval 15.
Where PDR EM = DR energy measurement for PDR resource

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Hourly

Interval	Load	Baseline	Reduction	PDR EM
13	720	1080	360	360
14	720	1080	360	360
15	720	1080	360	360
16	720	1080	360	360

5-Minute - Raw Decomposition

Interval	Load	Baseline	Reduction	PDR EM
15:00	60	90	30	30
15:05	60	90	30	30
15:10	60	90	30	30
15:15	60	90	30	30
15:20	60	90	30	30
15:25	60	90	30	30
15:30	60	90	30	30
15:35	60	90	30	30
15:40	60	90	30	30
15:45	60	90	30	30
15:50	60	90	30	30
15:55	60	90	30	30
Sum	720	1080	360	360
Avg	60	90	30	30

5-Minute - UIE Adjusted

Interval	Load	Baseline	Reduction	PDR EM	5-Minute - UIE Adjusted DLA
15:00	90	90	0	0	0
15:05	75	90	15	15	15
15:10	60	90	30	30	30
15:15	55	90	35	35	35
15:20	55	90	35	35	35
15:25	60	90	30	30	30
15:30	55	90	35	35	35
15:35	50	90	40	40	40
15:40	55	90	35	35	35
15:45	60	90	30	30	30
15:50	55	90	35	35	35
15:55	50	90	40	40	40
Sum	720	1080	360	360	360
Avg	60	90	30	30	30

DR Energy Measurement and the Default Load Adjustment (DLA) will be calculated and presented in the UI (user -interface) at the 5' granularity with the UIE adjustment.

Example 10: Example noting that even if Hourly Performance > 0, there may be 5' interval < 0 which will be set = 0

Where PDR EM = DR energy measurement for PDR resource

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Hourly

Interval	Load	Baseline	Reduction	PDR EM
13	1020	1080	60	60
14	1020	1080	60	60
15	1020	1080	60	60
16	1020	1080	60	60

5-Minute - Raw Decomposition

Interval	Load	Baseline	Reduction	PDR EM
15:00	85	90	5	5
15:05	85	90	5	5
15:10	85	90	5	5
15:15	85	90	5	5
15:20	85	90	5	5
15:25	85	90	5	5
15:30	85	90	5	5
15:35	85	90	5	5
15:40	85	90	5	5
15:45	85	90	5	5
15:50	85	90	5	5
15:55	85	90	5	5
Sum	1020	1080	60	60
Avg	85	90	5	5

5-Minute - UIE Adjusted

Interval	Load	Baseline	Reduction	PDR EM
15:00	85	90	5	5
15:05	85	90	5	5
15:10	80	90	10	10
15:15	75	90	15	15
15:20	80	90	10	10
15:25	85	90	5	5
15:30	90	90	0	0
15:35	95	90	-5	0
15:40	95	90	-5	0
15:45	90	90	0	0
15:50	85	90	5	5
15:55	75	90	15	15
Sum	1020	1080	60	70
Avg	85	90	5	5.83333333

5-Minute - UIE Adjusted

DLA
5
5
10
15
10
5
0
0
0
0
5
15
70

As noted, in this example hourly performance is positive but small, and thus 5' performance is varied. All 5' performance intervals with negative energy measurement will be set = 0 as part of the UIE adjustment calculation logic. Both DR Energy Measurement and the Default Load Adjustment (DLA) will be calculated and presented in the UI (user -interface) at the 5' granularity with this UIE adjustment logic.

Default Load Adjustment (DLA)

When applicable, a Default Load Adjustment will be used to adjust the UIE Settlement of the LSE for the measured Energy of all PDR or RDRR associated with the LSE's SC

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within a particular DLAP. The Default Load Adjustment will also be based on the underlying registrations that are effective on the event day within a given DLAP Load Resource ID.

$$DLA_{DLAPresourceid} = \sum DREnergy_{DLAPresourceid}$$

The DR Energy Measurement will be provided as a Generation quantity and the Default Load Adjustment data will be provided as a load quantity.

$$DREnergy_{em} = 1/12 * DREnergy_{reh} \text{ (for each m in h)}$$

$$DLALoad_{em} = 1/12 * DLAEnergy_{reh} \text{ (for each m in h)}$$

If a DRP's SC fails to submit SQMD for a PDR or RDRR, then the CAISO will be unable to create a baseline or calculate the DR Energy Measurement for the resource even if it was an event day for that resource. Therefore, there would be no default load adjustment associated with the resource and there will be no adjustment made to the Meter Data of the SC Default LAP resource ID of the LSE for that particular PDR or RDRR which would have an impact to the UIE Settlement of the LSE in which the PDR or RDRR resided.

Additionally, the CAISO is indifferent to the treatment of Estimated Settlement Quality Meter Data and Actual Settlement Quality Meter Data submitted by the LSE's SC for the DLAP Resource ID in which a PDR or RDRR may be associated. The CAISO will create a Default Load Adjustment and apply it to either the ESQMD or SQMD submitted. The Default Load Adjustment will also be applied to CAISO Estimated Settlement Quality Meter Data if applicable, in the event that no meter data is submitted by the LSE's SC for the DLAP Resource ID by T+8B (see CAISO Tariff Section 10.3.6.2). The Default Load Adjustment will not be calculated, estimated, or be applied for the Initial Settlement Statement Calculation or for any Recalculation Settlement Statement Calculation for PDR or RDRR for which CAISO Estimated Meter Data is calculated.

PDR No Pay Dispatch Performance (meter before/after in 5 minute intervals)

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A PDR that is dispatched for Energy from Ancillary Service capacity must show a reduction in the underlying load equal to the amount of the Dispatch within 10 minutes, as well as sustain the response for the duration of the Dispatch. In contrast, the baseline methodology for Instructed Imbalance Energy Settlement measures response relative to typical usage. Therefore, the CAISO will use a "meter before/ meter after" approach for the Undelivered category of No Pay for Spinning and Non-Spinning Reserve, even though the settlement of Instructed Imbalance Energy will use the PDR Energy Measurement method. The meter before/after amount calculated by the Demand Response System is called PDR No Pay Dispatch Performance.

Note: SQMD in Settlement Intervals of five (5) minutes must be submitted for all 24 hours for a trade date in which a PDR is awarded Ancillary Services (AS) or has been dispatched for AS and/or RT Imbalance Energy.

First, PDR Load total for the unique PDR AS dispatch event x is calculated. Unique PDR AS dispatch events are defined as each contiguous time period where the PDR Non-Spin IIE > 0. Note that m=0 represents the interval immediately prior to the event, with 1 ton as the subsequent 5 minute intervals. For an AS dispatch event that extends across operating hours, an adjustment to the PDR No Pay Dispatch Performance is made based on the baseline calculated in Section 12.6.2.1. This baseline adjustment ensures that the load curtailment offered as an ancillary service is not a normal hourly load variation.

$PDRLoad_{exm} = \sum_{r} Demand_{rem}$ (for each registration for m=0..n that is within x)

$Hourly\ Baseline\ Adjustment_{reh=i} = Baseline_{reh=0} - Baseline_{reh=i}$

Where h = 0 is the hour where the AS dispatch event begins and h = i is each consecutive hour in which the AS dispatch event continues.

Finally, calculate the performance for each interval after the event start.

$PDRNoPayDispatchPerformance_{exm} = \max(0, -1/12*(Hourly\ Baseline\ Adjustment_{reh=i}) +$

$(PDRLoad_{exm=0} - PDRLoad_{exm}))$ (for each m=1..n)

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Five-minute PDR No Pay Dispatch Performance values calculated by the Demand Response System will be submitted to the settlement system as a Generation quantity. Five-minute PDR No Pay Dispatch Performance values will be summed to the ten-minute Settlement Interval to determine compliance with Dispatch Instructions. The No Pay methodology for Ancillary Service compliance is described in the *BPM for Settlements and Billing*.

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DRS Status

DRS Status	
Location	**Registration**
1. Active **2. Inactive** **3. New** **4. Terminated**	1. Confirmed 2. Denied 3. Disputed 4. Duplicate 5. New 6. Pending 7. Terminated 8. Withdrawn

App	Status	Description
DRS	Active	Location will be set to this status when the Registration status is in Pending/Confirmed mode.
	Inactive	Location will be set to this status when the Registration status has been terminated.
	New	Location will be set to this status when it is not associated to any Registration.
	Terminated	Location will be set to this status when the Registration has been withdrawn.
	Confirmed	The Registration resource has been fully confirmed.
	Denied	Location will be set to this status when there is a Review Finding during the Registration process.
	Disputed	The current Registration is under dispute.
	Duplicate	Occurs when there is an overlapping Registration UDC Account#.
	New	The Registration has been saved but not submitted for review.
	Pending	The Registration is waiting for approval by the LSE/UDC/CAISO.
	Terminated	Registration will be set to this status when it has been ended.
	Withdrawn	The current Registration is in the process of being withdrawn.

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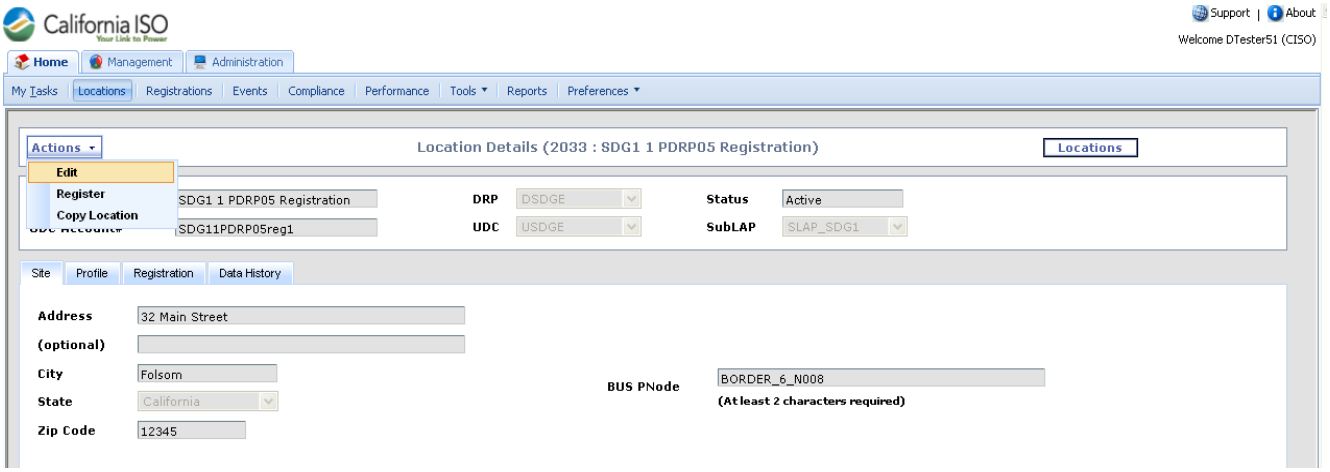
Select the **UDC** and **SubLAP** field. The **SubLAP** will change based on which UDC the User selects. For example UDC003 is SDGE and will only show a single SubLAP to select in the **SubLAP** field.

In DRS, users have the option to create and edit their Registration before it is confirmed.



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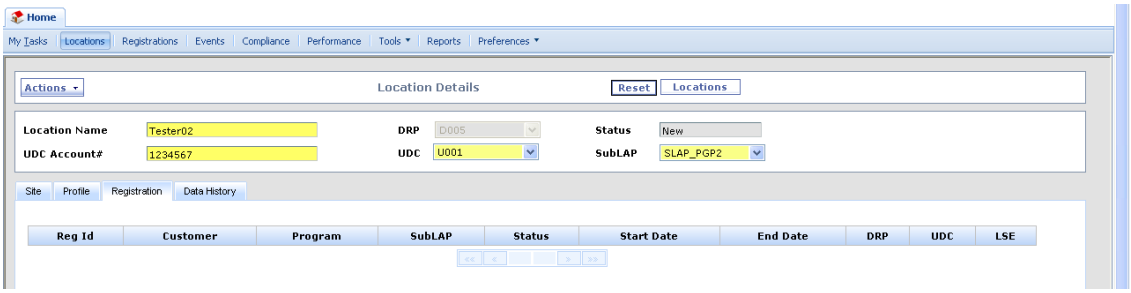
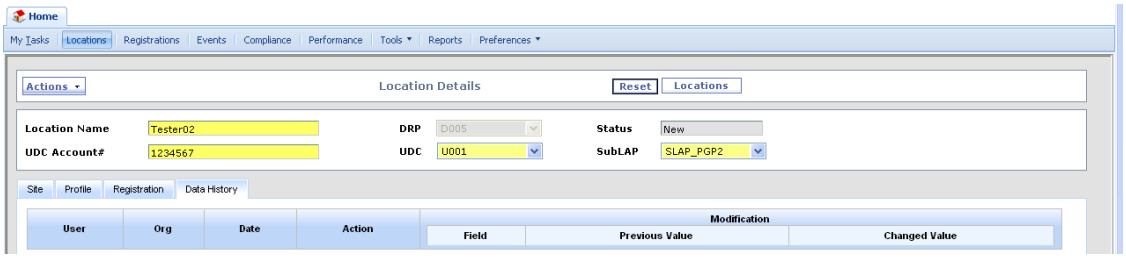
At this point, the **Registration** and **Data History** tabs should be blank.





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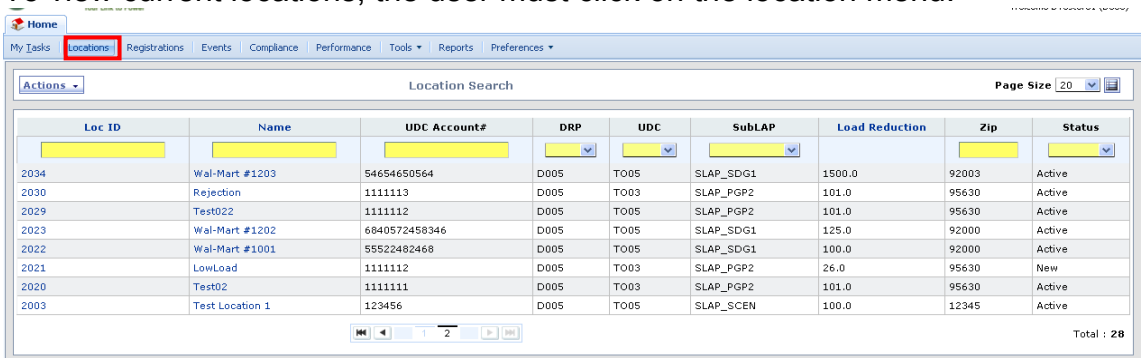
Viewing a Location

To view current locations, the user must click on the location menu.


Home
My Tasks
Locations
Registrations
Events
Compliance
Performance
Tools
Reports
Preferences
Actions
Location Search
Page Size 20
Loc ID | Name | UDC Account# | DRP | UDC | SubLAP | Load Reduction | Zip | Status
2034 | Wal-Mart #1203 | 54654650564 | D005 | T005 | SLAP_SDG1 | 1500.0 | 92003 | Active
2030 | Rejection | 1111113 | D005 | T003 | SLAP_PGP2 | 101.0 | 95630 | Active
2029 | Test022 | 1111112 | D005 | T005 | SLAP_PGP2 | 101.0 | 95630 | Active
2023 | Wal-Mart #1202 | 6840572458346 | D005 | T005 | SLAP_SDG1 | 125.0 | 92000 | Active
2022 | Wal-Mart #1001 | 55522482468 | D005 | T005 | SLAP_SDG1 | 100.0 | 92000 | Active
2021 | LowLoad | 1111112 | D005 | T003 | SLAP_PGP2 | 26.0 | 95630 | New
2020 | Test02 | 1111111 | D005 | T003 | SLAP_PGP2 | 101.0 | 95630 | Active
2003 | Test Location 1 | 123456 | D005 | T005 | SLAP_SCEN | 100.0 | 12345 | Active
Total : 28

Loc ID – A number assigned by the DRS for a particular location.

Name – The Name of the location assigned by the User,

UDC Account # - The account number generated by the ISO for the ALOC

DRP – The DRP ID given to the DRP by the CAISO

UDC - The UDC ID given to the UDC by the CAISO

SubLAP – The Sublap in which the location resides

Load Reduction – The total Load Reduction capacity per location

Zip – The Zip code in which the location resides

Status – The status of the location

- **Active** – The location is assigned to a registration
- **New** – The location is saved and not assigned to a location
- **Inactive** – The registration has been terminated or withdrawn
- **Terminated** – The registration has been withdrawn

To view the details for each location the user must click on the **Loc ID** or **Name** hyperlink.

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PDR/RDRR Registration

Registering a New Location

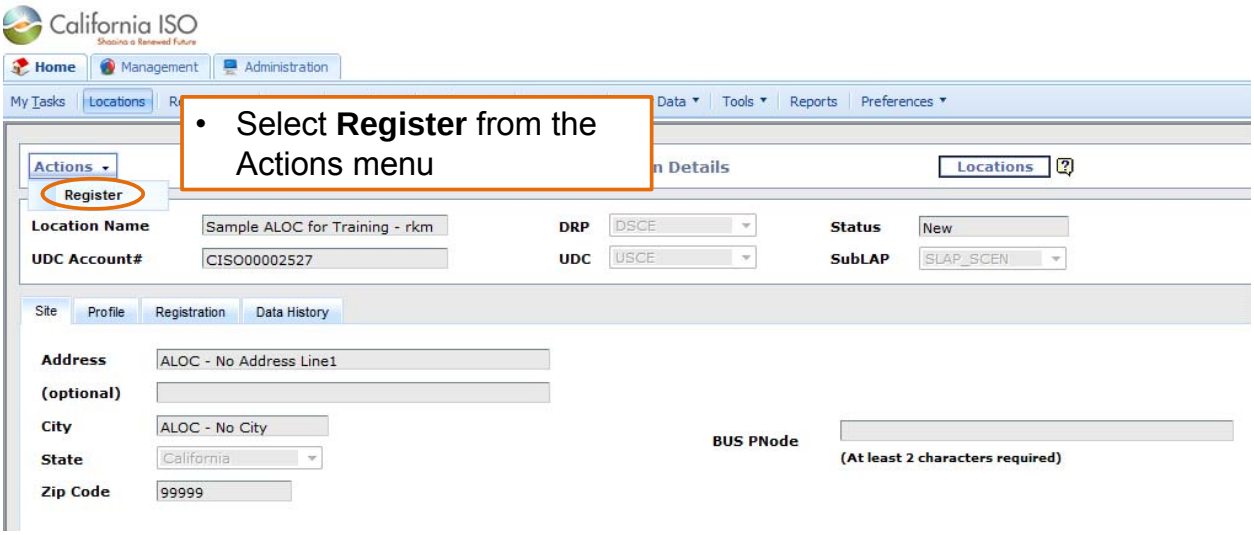
Please refer to the DRRS section of this user guide as the locations are no longer created or copied in DRS. Locations shall be created through the DRRS UI.

Note: The ALOC functionality will fully replace the concept of pseudo locations. Existing pseudo locations would be converted to both a location and an ALOC in DRRS.

Registering an Existing Location

A user can select an existing location for registration by first selecting the **Location** tab on the main menu.

Select the location to register by clicking on one of the hyperlinks on the **Loc ID** or **Name** fields.



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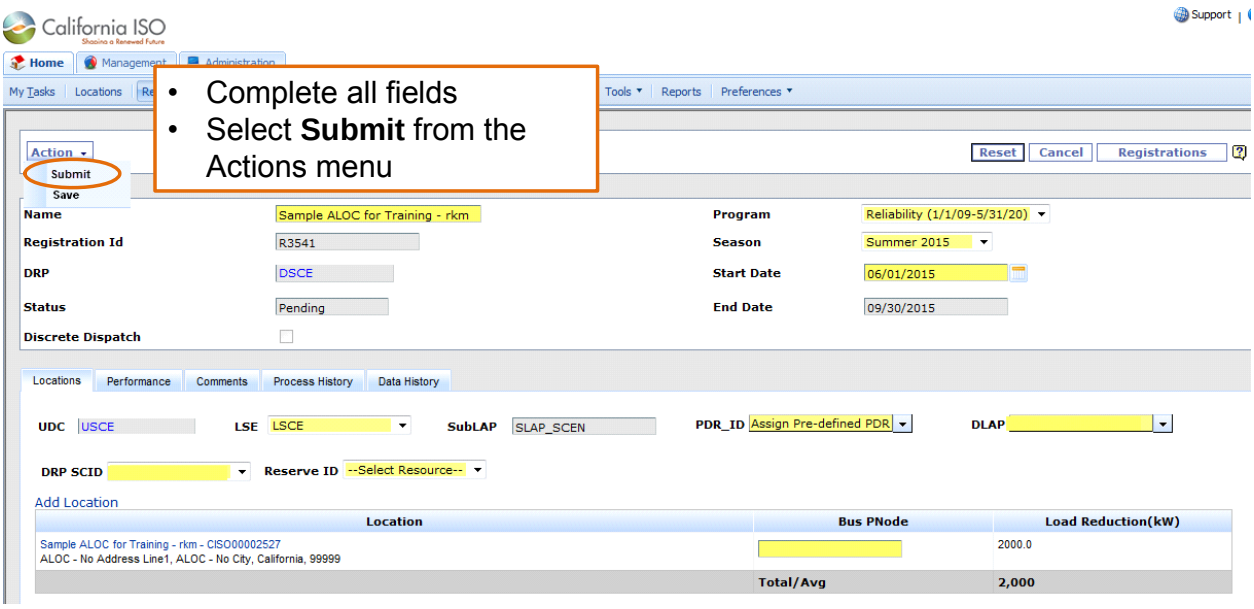

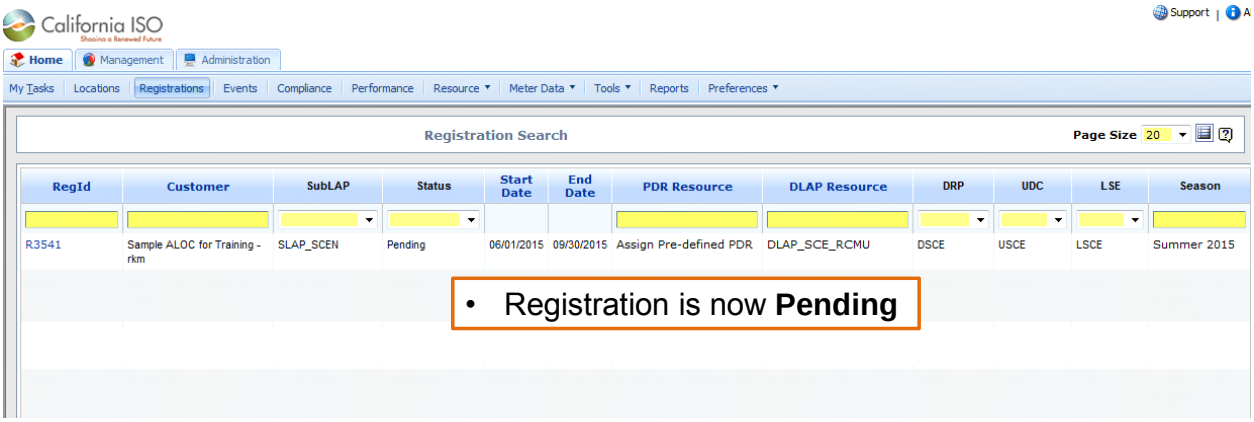

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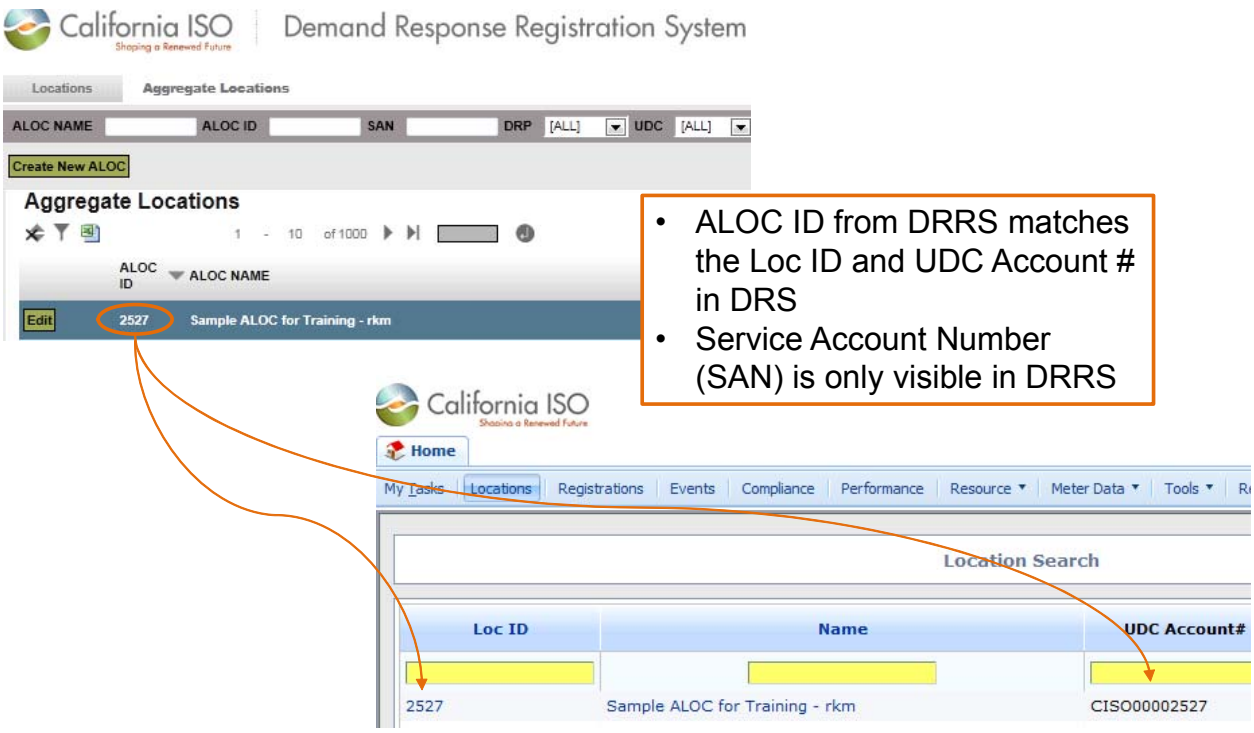
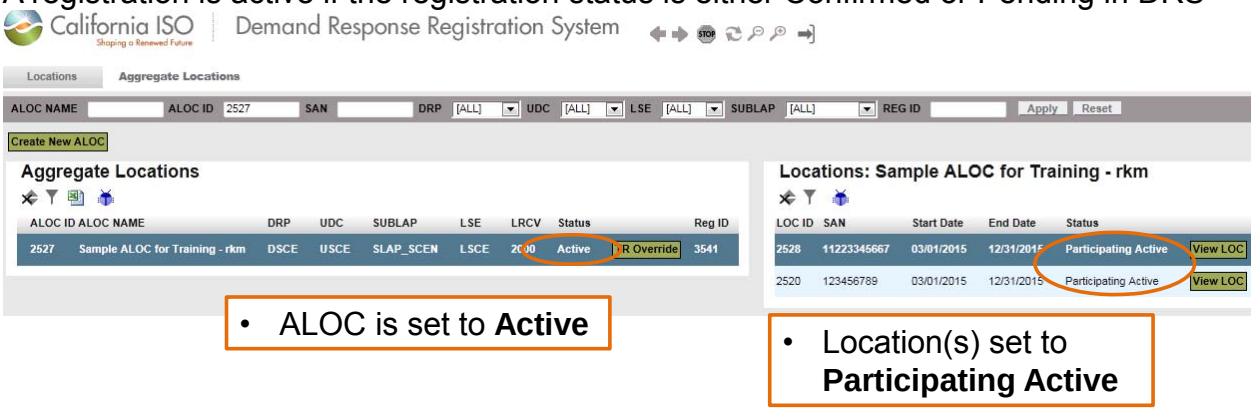


A registration is active if the registration status is either Confirmed or Pending in DRS



The hyperlinks will take the User to the **Location Details** page, where all the fields are grayed out.

After a location is saved, you will have to option to **Edit, Register,** or **Copy** a Location. To Register a location go to **Actions** >> **Register**.

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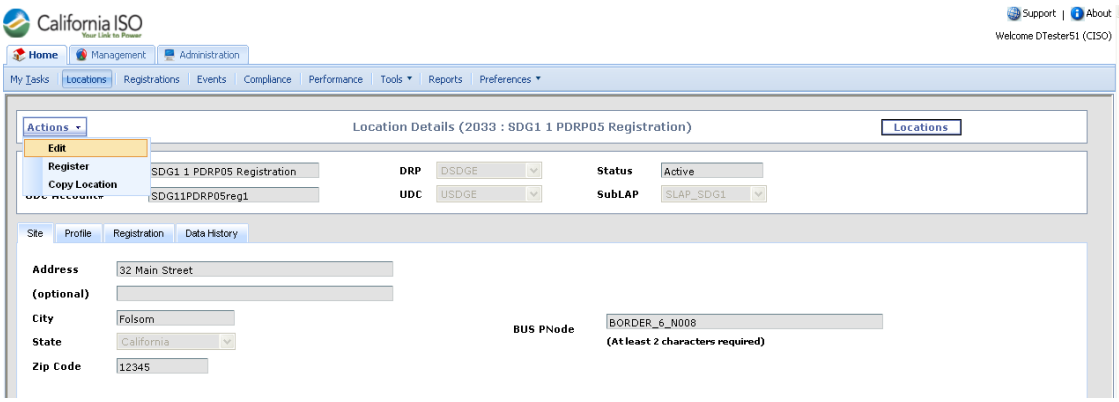

Registering Detail Menu

One a user enters into the Registration process; the **Registration Detail** menu appears and is available for data entry.

Enter the following information in the required fields in yellow:

Name – Copied from location, however can be edited within the Registration Details section

Program – DRP has the option to select either Economic or Reliability.

Start Date – Start date of the registration (cannot overlap with existing registration for the same location).

End Date – End date of registration.

LSE – Load Serving Entity for the location(s) in registration

PDR_ID – Select one of the following options:

Assign Pre-Defined PDR – CAISO will select a unique pre-established resource ID in the MasterFile for the registration.

New Custom PDR – CAISO will develop a new resource ID for this registration (custom).

Existing Resource ID – Resource IDs previously assigned to the DRP account. (Should be selected if resource ID was pre assigned to location)

DLAP – Select the DLAP the registration falls under.

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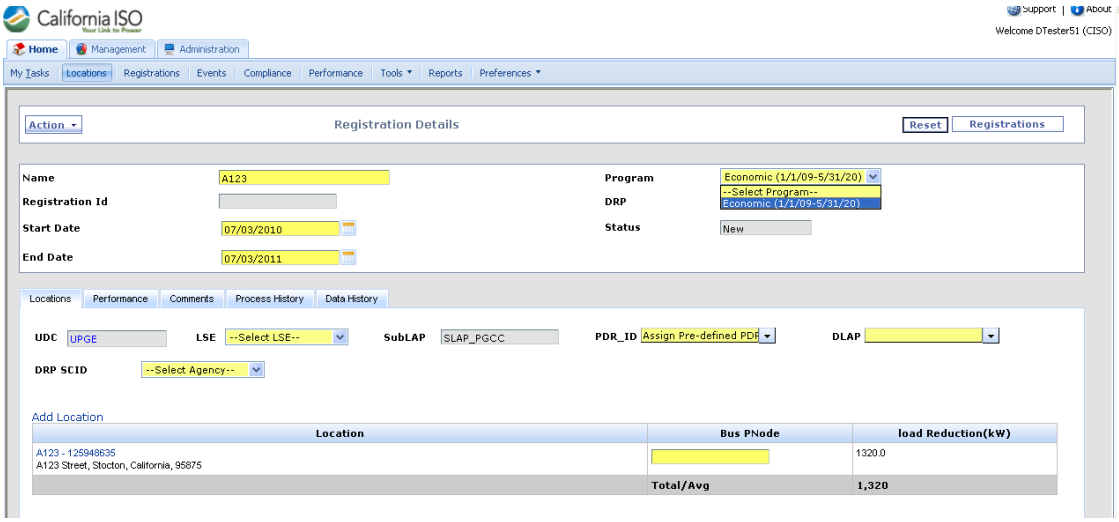
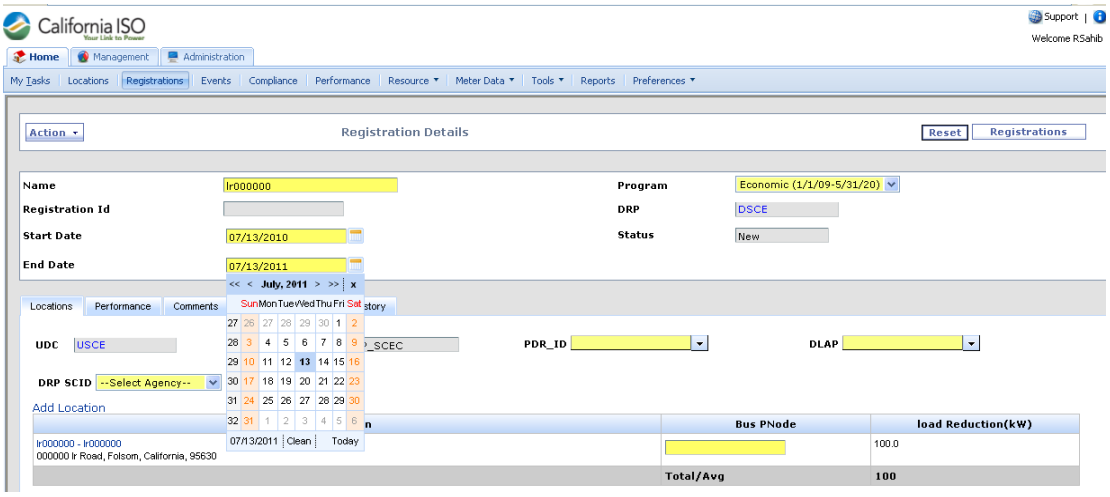
DRP_SC – Select the SC assigned to the registration. They will be responsible for submitting bids into the market and meter data to the DRS.





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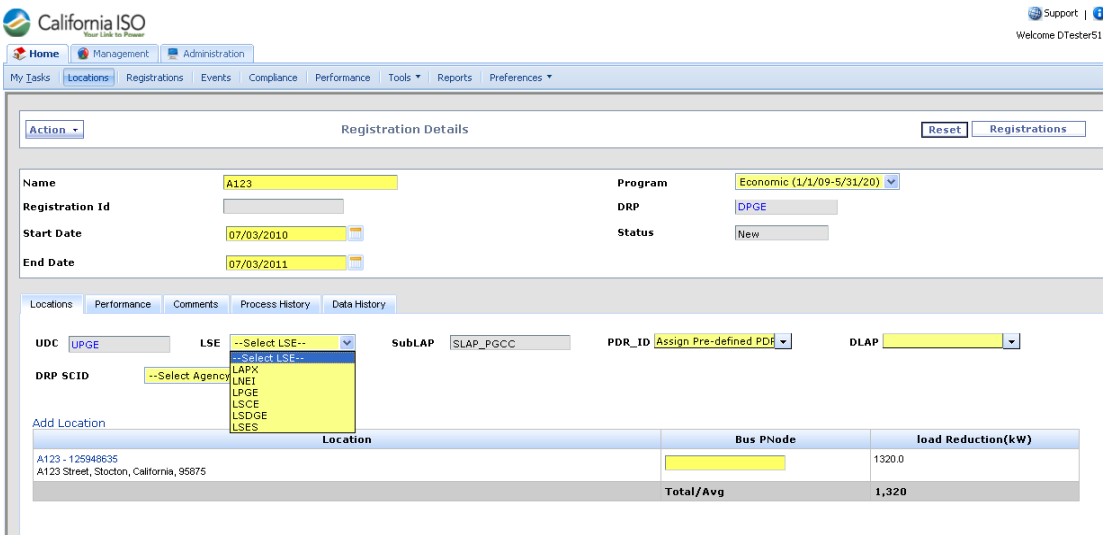

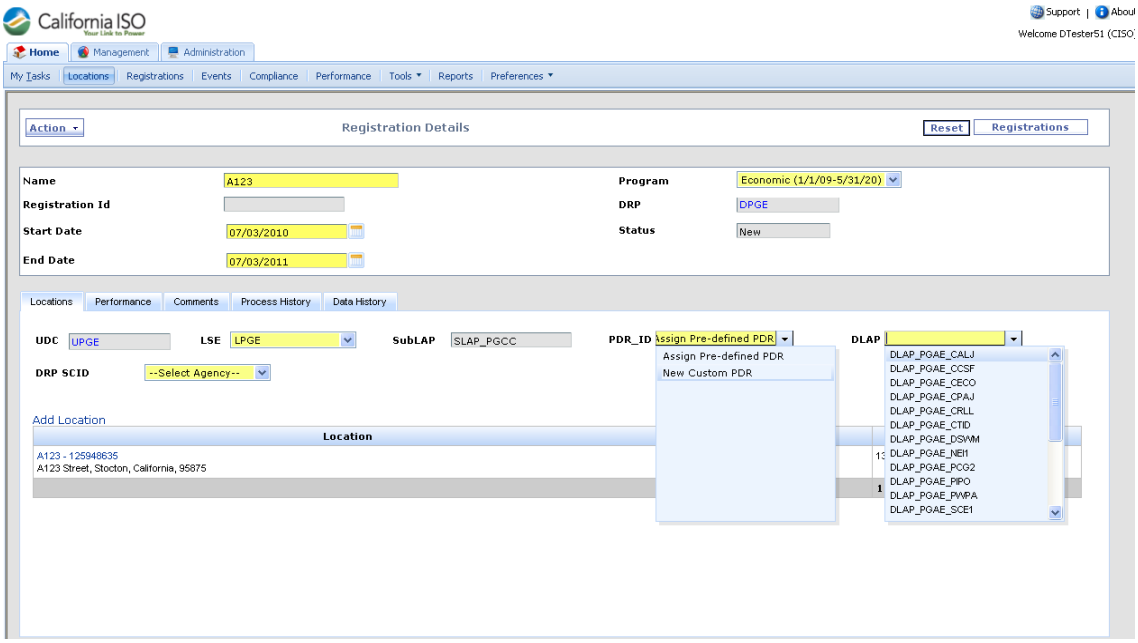

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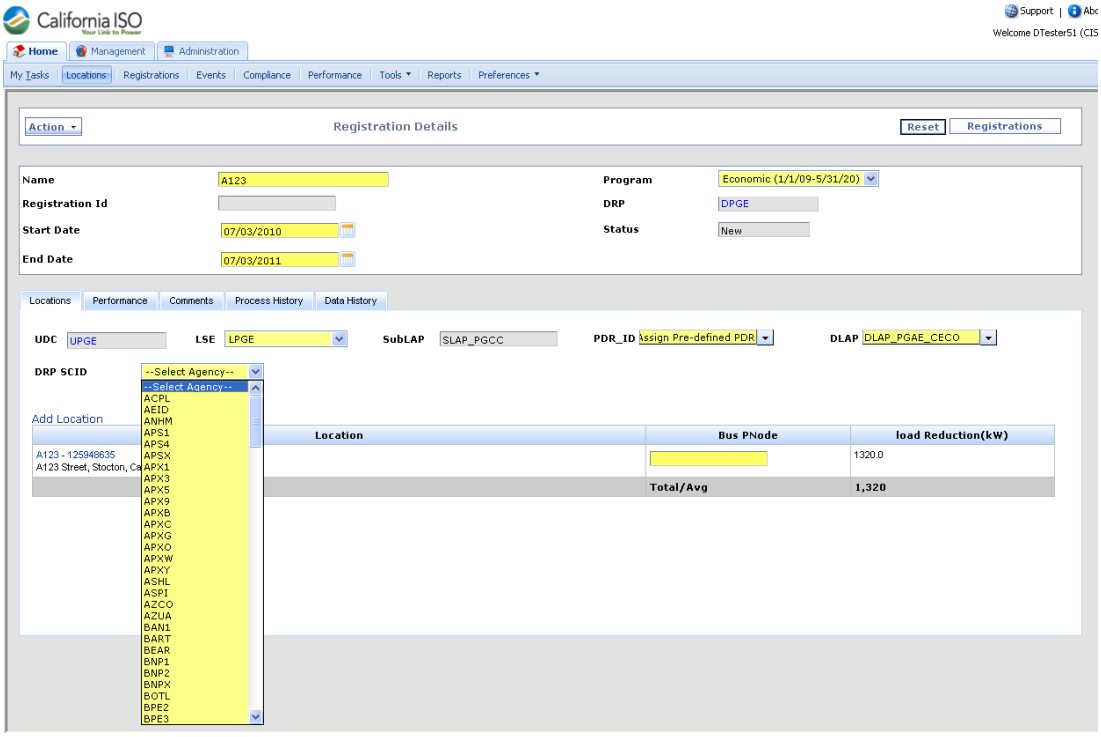
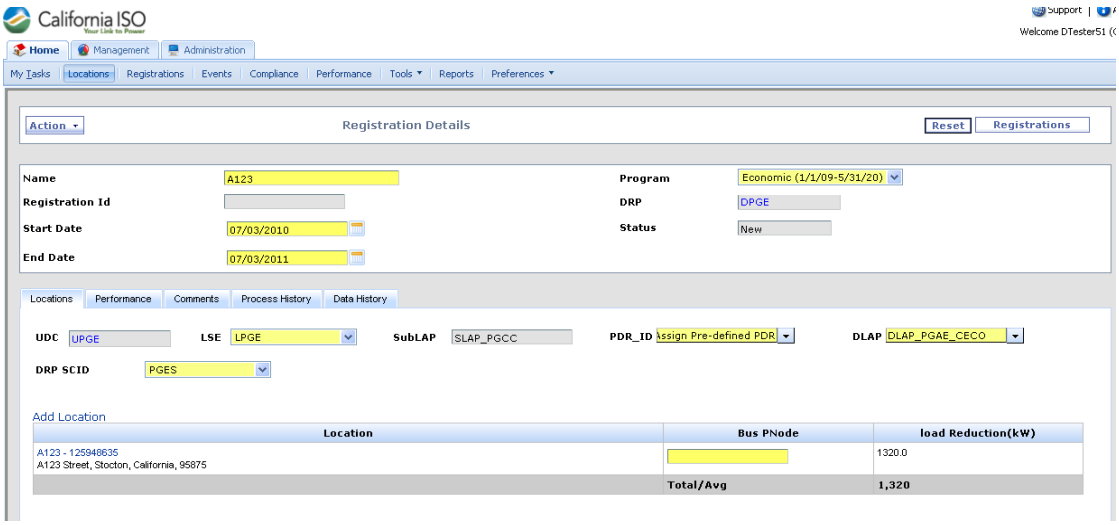


All fields in the location section should be now filled out.



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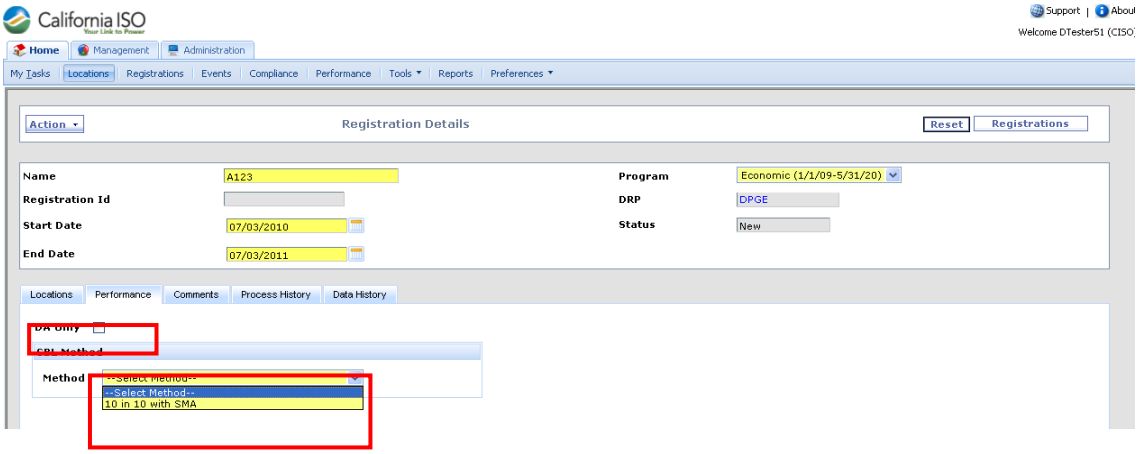
Next, select the Performance tab to enter one of the following Methods for the CBL Engine:

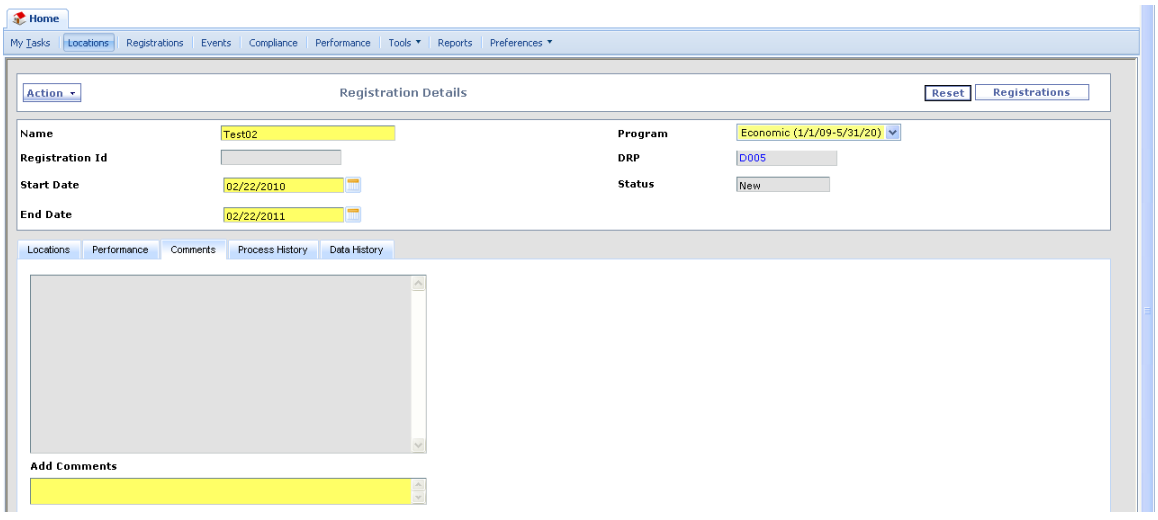
10 in 10 with SMA – Morning Adjustment

The User must select **10 in 10 with SMA**



If the registration is only expected to participate in the Day Ahead Energy only market, the user must select the DA only flag.

Any important comment(s) or consideration for this registration can be entered in the comment field under the **Comments** tab by the DRP.



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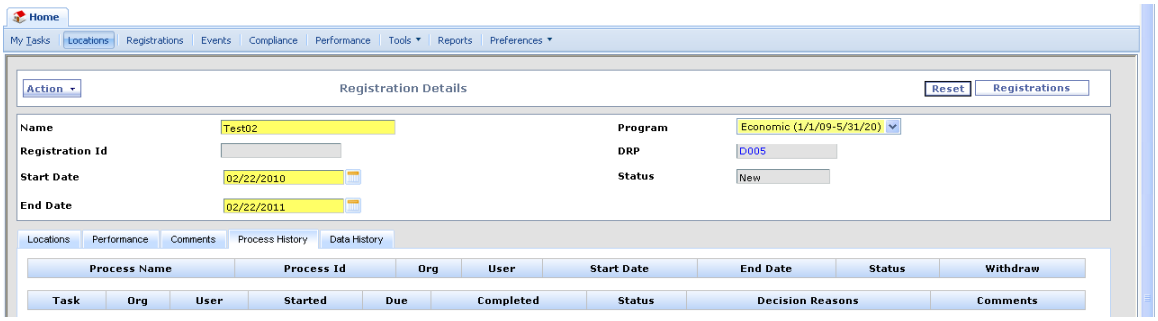
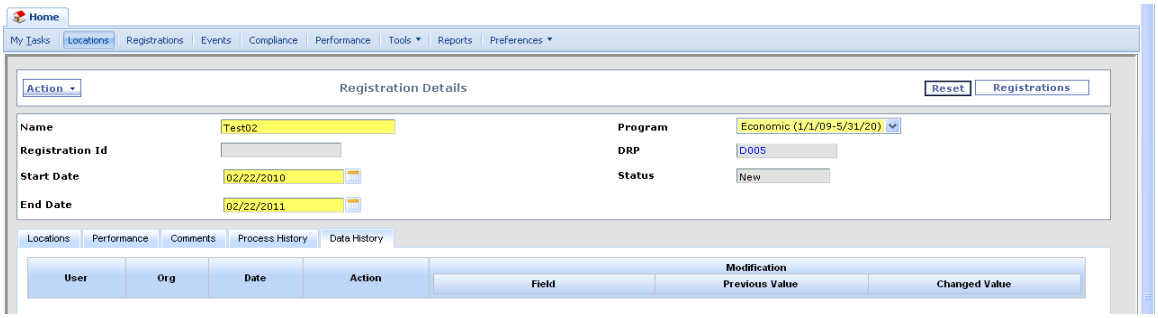
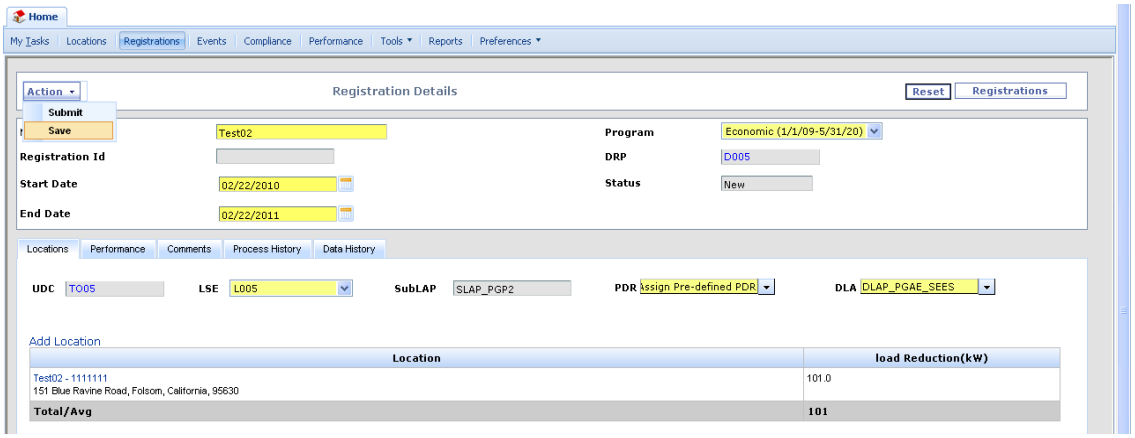
Process History and **Data History** tabs should have no entries at this time.





Click **Action** →**Save** to record Registration



Saved Registration is shown with grayed out fields that cannot be updated.

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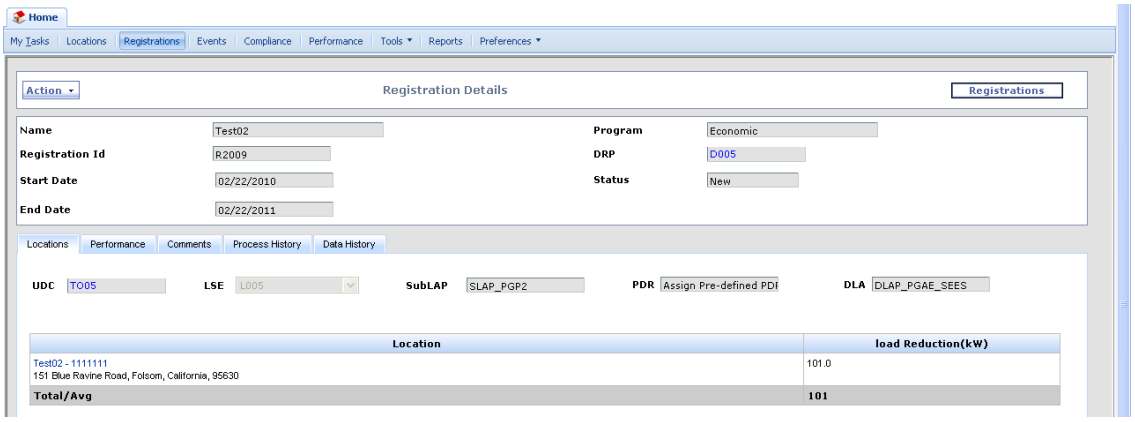
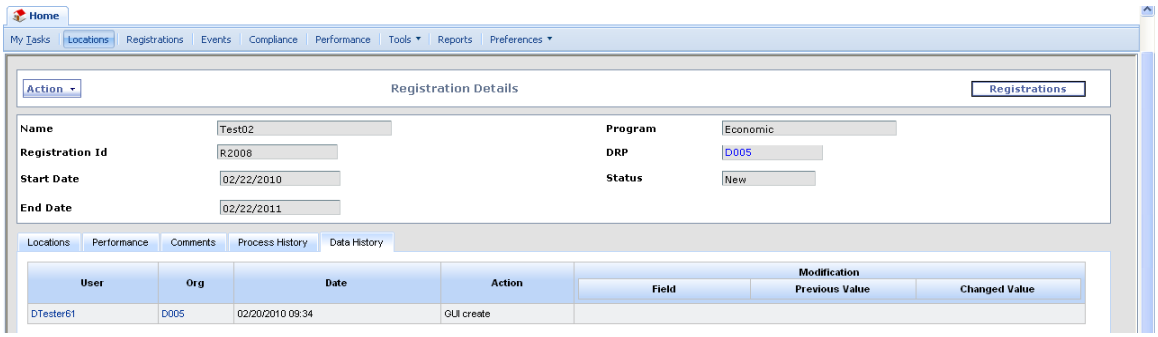


Upon saving registration, the Data History tab is updated.



To initiate a Registration approval process, select **Action** >> **Submit**.

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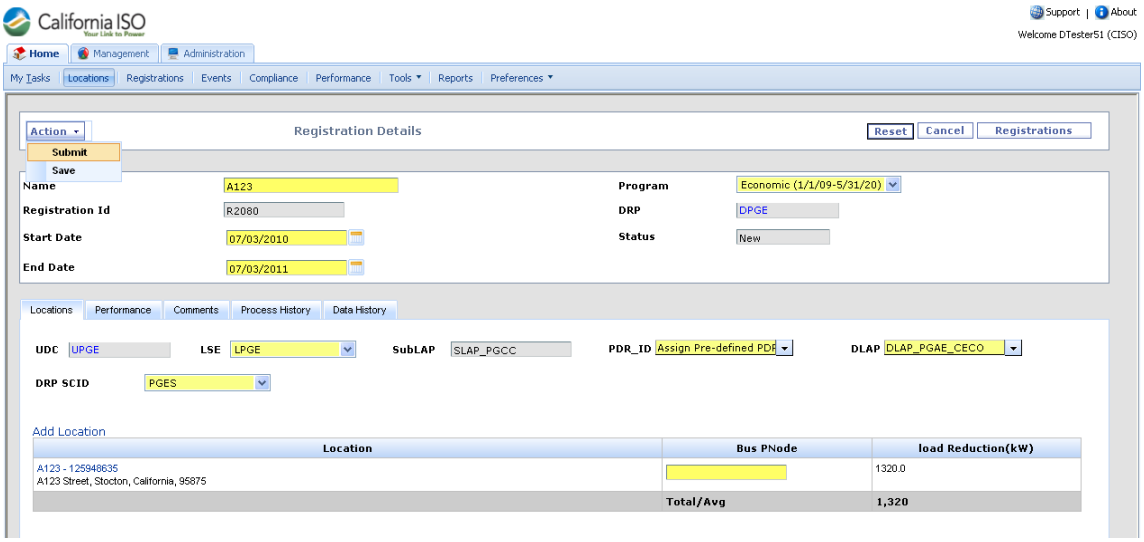
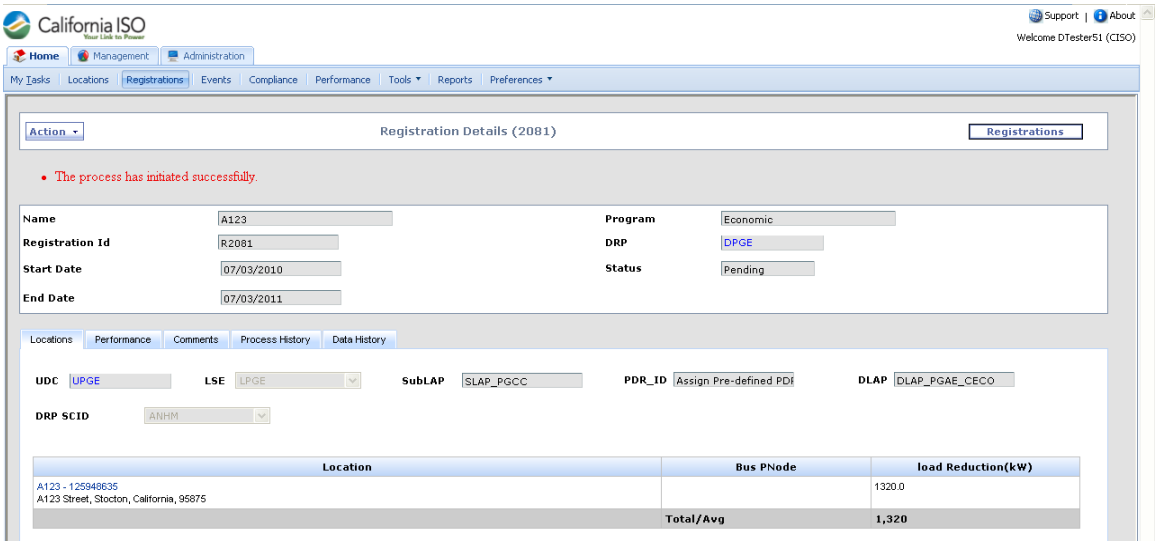


The user will receive a “The process has initiated successfully” message.



Viewing Existing Registration

After a Registration has been saved it can be viewed from the **Registration** menu.

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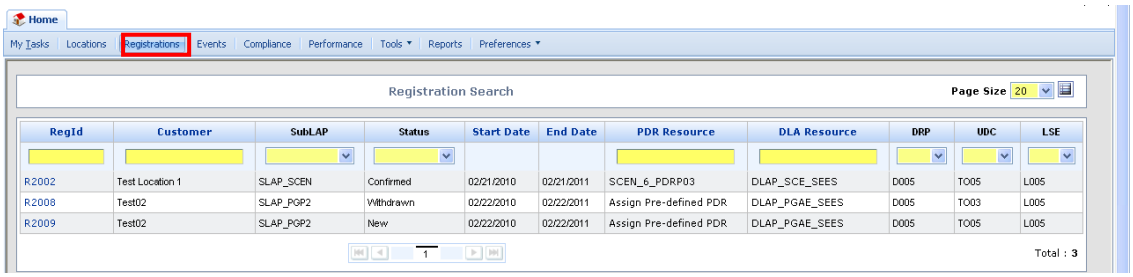

The Registration menu consists of the following fields:

RegID – the registration ID number assigned to the registration by the Demand Response System; this ID is assigned by the DRS in sequential order

Customer – The name of the customer that user assigned during the registration process

SubLAP- The SubLAP in which all the locations within the registration reside.

Status – The Current status of the Registration:

New –The Registration has been saved but not submitted for review
Pending –The Registration is waiting for approval by the LSE / UDC / CAISO
Confirmed –The resource is fully confirmed
Dispute –The current Registration is under dispute
Withdrawn –The current Registration is in the process of being withdrawn

Start Date – The start date when the Registration will become effective

End Date – The end date when the Registration will become inactive

PDR Resource – The PDR resource ID

Assign Pre-Defined PDR – CAISO still has not assigned a Resource ID.
New Custom PDR – CAISO is currently developing a new resource ID for this registration (custom).
Existing Resource ID – Resource IDs previously assigned to the DRP account. (Should be selected if resource ID was pre assigned to location)

DLA Resource – The DLAP in which the Locations of the Registration reside

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DRP – The DRP number of the DRP who created the registration

UDC – The UDC in which the Locations in the Registration reside and is part of the approval process.

LSE – The LSE in which the Locations in the Registration reside and is part of the approval process

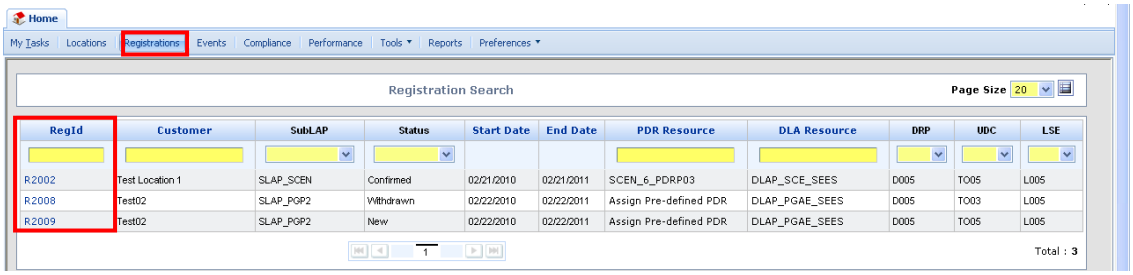
Note: DRPs are no longer able to add/remove multiple locations in DRS. This functionality can only be performed in DRRS.

DRP are no longer able to copy Registrations in DRS.

Withdrawing a Registration

After Completing a Registration, a user has the option of withdrawing the entry.

To withdraw a Registration, click on the **Registration** tab, then select the RegID you wish to withdraw by clicking on the hyperlink.



The user will be taken to the **Registration** Detail Page.
To copy registration click **Action >> Withdraw Registration**.

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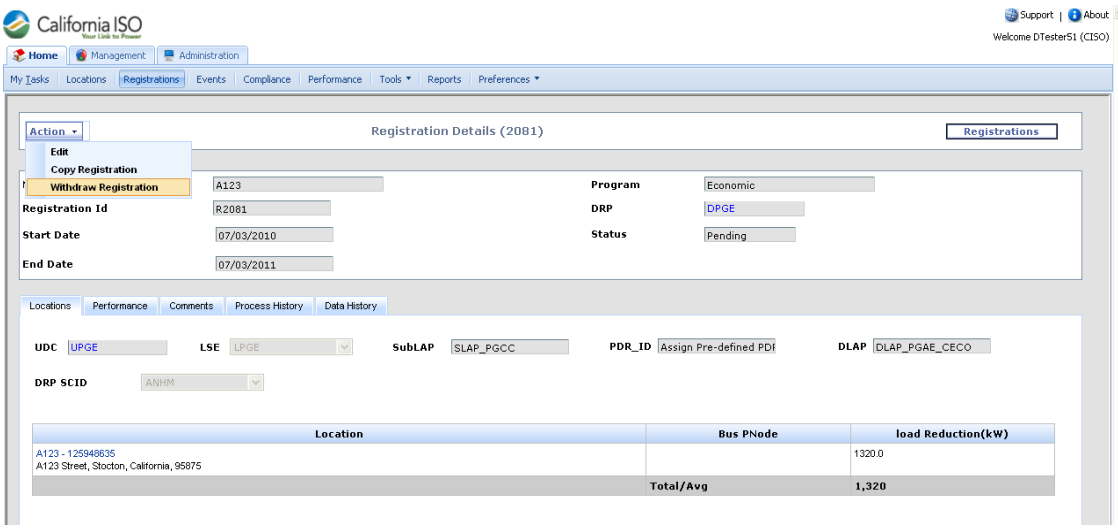


Requesting New Termination Date

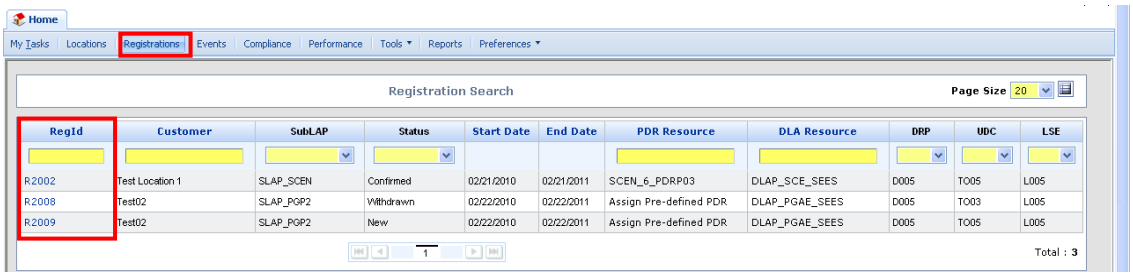
Users can terminate a registration through the TR button in DRRS

After completing a Registration, a user has the option of Requesting New Termination Date on an existing registration.

First enter the Registration Search menu by clicking on the **Registration** tab.

Please note the option to Requesting New Termination Date is only available for Registration whose status is **Confirmed**.

Select the RegID to edit by clicking on the hyperlink of the registration ID.



User will be taken to the **Registration Detail** page.

To end Registration, click **Action >> Request New Termination Date**

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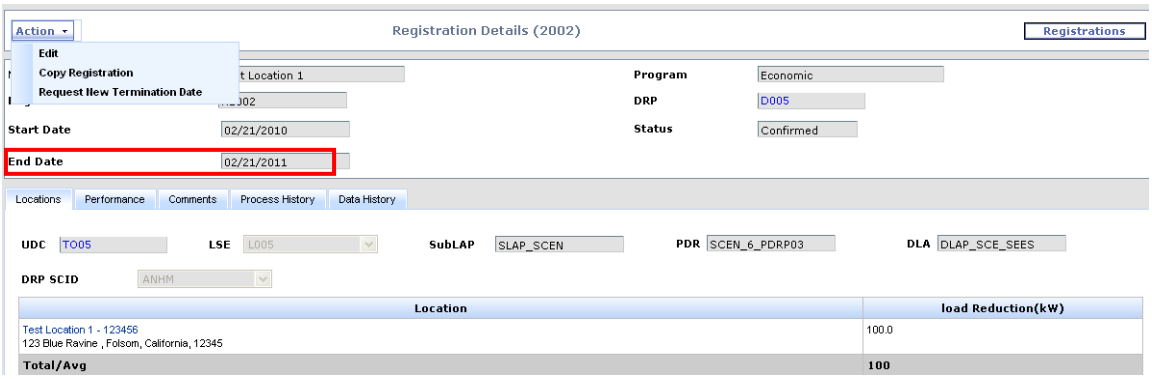
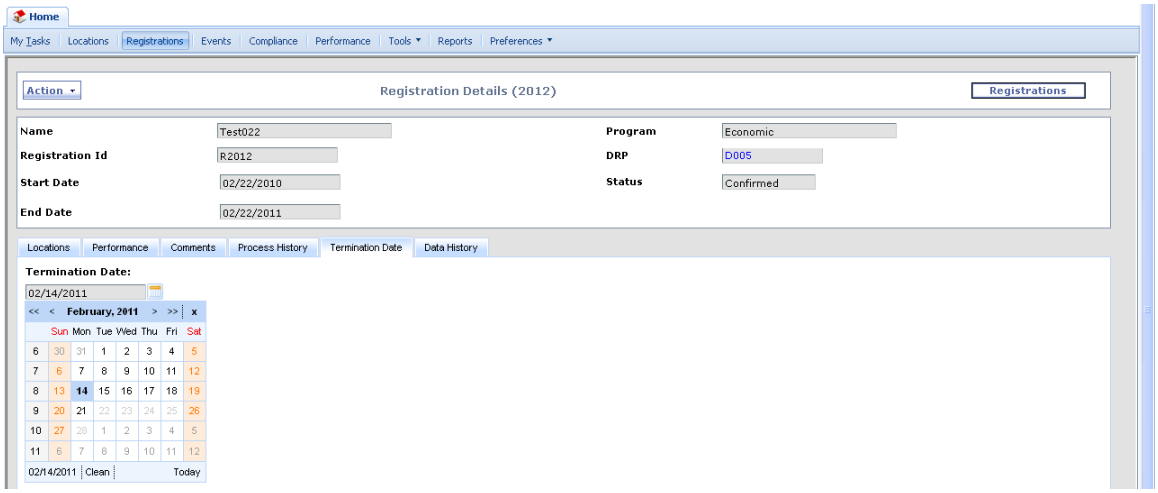
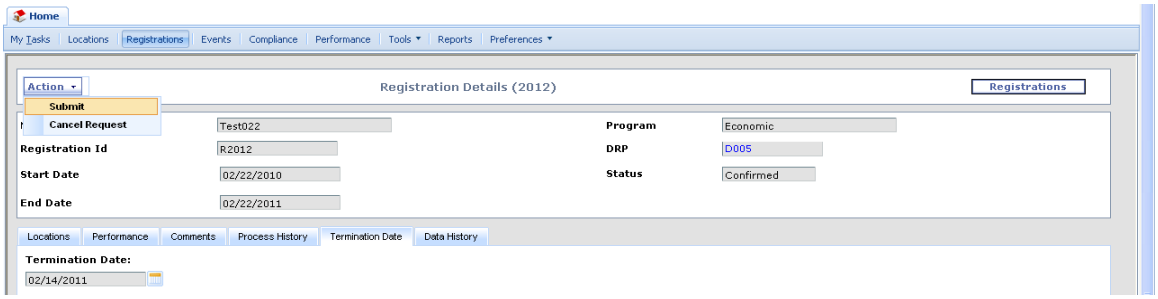


User will then be able to modify the End Date by using the calendar tool and select a new Termination Date.



After selecting a new termination date, user clicks **Action >> Submit** to submit the New Termination Date changes.



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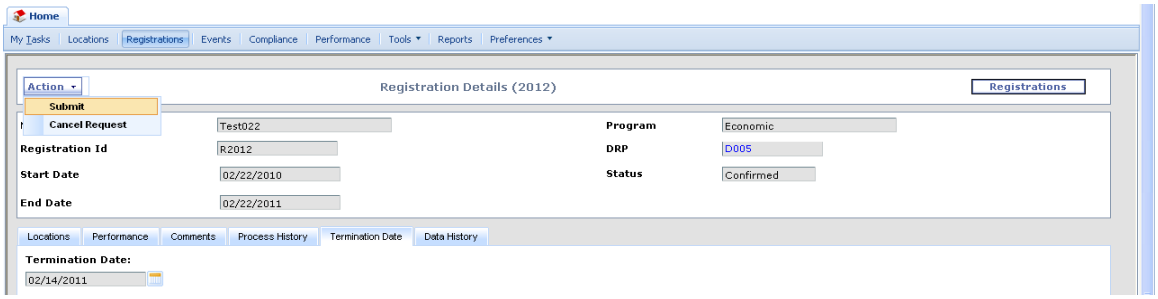

To cancel out of the process prior to submitting the New Termination Date, user clicks **Action >> Cancel Request**.

Common Error

3108 - Total Load Reduction 26 should be greater than 100.

- The total amount of load reduction for a single registration should be greater then or equal to 100 KWH. The User needs to add additional locations to add up to 100 or more KWH.

3141 - Effective date is required. Please select a value

- An effective date was not entered. The User must update the **Start Date** field.

3142 - Termination date is required. Please select a value

- A termination date was not entered. The User must update the **End Date** field.

3149 - Undefined or Unspecified Program, Program required.

- A program type was not selected. The User must select a program type from the **Program** field.

3153 - Undefined or Unspecified LSE organization, LSE organization required.

- LSE was not selected. The User must select an LSE from the **LSE** field.

3197 - Blank not allowed for PDR. Please select value from available option.

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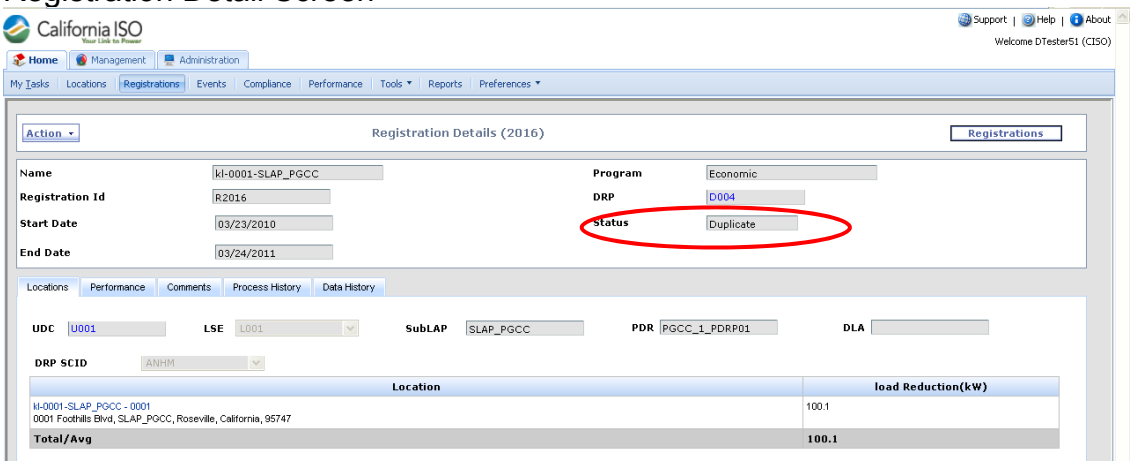
- The User did not select a PDR resource ID or a PDR resource ID type from the **PDR_ID** field.

Duplicate Registration Status

Duplicate registration status occurs when the user submits a registration which has a location, with the same UDC number as another DRP.

When this occurs the user will still be able to submit their registration for approval. But the Status on the **Registration Detail screen** and the **Registration Search** screen will be set to **duplicate** status.

Registration Detail Screen



Registration Search Screen

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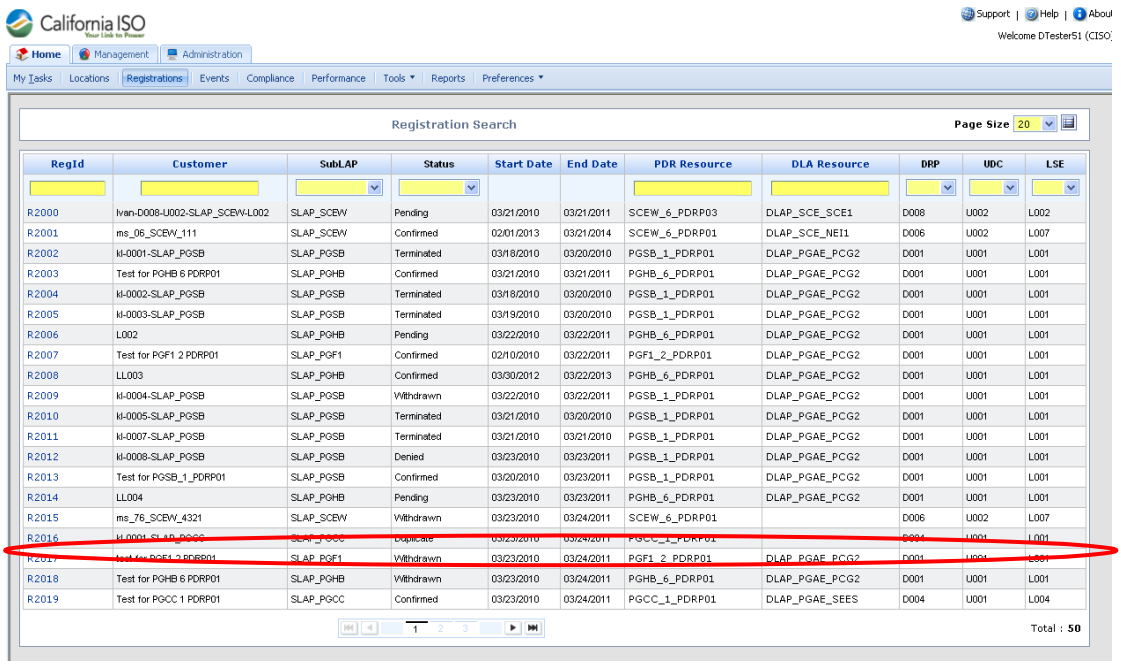
California ISO
Support | Help | About
Welcome DTester51 (CISO)
Home
Management
Administration
My Tasks
Locations
Registrations
Events
Compliance
Performance
Tools
Reports
Preferences
Registration Search
Page Size 20
RegId
Customer
SubLAP
Status
Start Date
End Date
PDR Resource
DLA Resource
DRP
UDC
LSE
R2000 Ivan-D008-U002-SLAP_SCEW-L002 SLAP_SCEW Pending 03/21/2010 03/21/2011 SCEW_6_PDRP03 DLAP_SCE_SCE1 D008 U002 L002
R2001 ms_06_SCEW_111 SLAP_SCEW Confirmed 02/01/2013 03/21/2014 SCEW_6_PDRP01 DLAP_SCE_NEI1 D006 U002 L007
R2002 kl-0001-SLAP_PGSB SLAP_PGSB Terminated 03/18/2010 03/20/2010 PGSB_1_PDRP01 DLAP_PGAE_PCG2 D001 U001 L001
R2003 Test for PGHB 6 PDRP01 SLAP_PGHB Confirmed 03/21/2010 03/21/2011 PGHB_6_PDRP01 DLAP_PGAE_PCG2 D001 U001 L001
R2004 kl-0002-SLAP_PGSB SLAP_PGSB Terminated 03/18/2010 03/20/2010 PGSB_1_PDRP01 DLAP_PGAE_PCG2 D001 U001 L001
R2005 kl-0003-SLAP_PGSB SLAP_PGSB Terminated 03/19/2010 03/20/2010 PGSB_1_PDRP01 DLAP_PGAE_PCG2 D001 U001 L001
R2006 L002 SLAP_PGHB Pending 03/22/2010 03/22/2011 PGHB_6_PDRP01 DLAP_PGAE_PCG2 D001 U001 L001
R2007 Test for PGF1 2 PDRP01 SLAP_PGF1 Confirmed 02/10/2010 03/22/2011 PGF1_2_PDRP01 DLAP_PGAE_PCG2 D001 U001 L001
R2008 LL003 SLAP_PGHB Confirmed 03/30/2012 03/22/2013 PGHB_6_PDRP01 DLAP_PGAE_PCG2 D001 U001 L001
R2009 kl-0004-SLAP_PGSB SLAP_PGSB Withdrawn 03/22/2010 03/22/2011 PGSB_1_PDRP01 DLAP_PGAE_PCG2 D001 U001 L001
R2010 kl-0005-SLAP_PGSB SLAP_PGSB Terminated 03/21/2010 03/20/2010 PGSB_1_PDRP01 DLAP_PGAE_PCG2 D001 U001 L001
R2011 kl-0007-SLAP_PGSB SLAP_PGSB Terminated 03/21/2010 03/21/2010 PGSB_1_PDRP01 DLAP_PGAE_PCG2 D001 U001 L001
R2012 kl-0008-SLAP_PGSB SLAP_PGSB Denied 03/23/2010 03/23/2011 PGSB_1_PDRP01 DLAP_PGAE_PCG2 D001 U001 L001
R2013 Test for PGSB_1_PDRP01 SLAP_PGSB Confirmed 03/20/2010 03/23/2011 PGSB_1_PDRP01 DLAP_PGAE_PCG2 D001 U001 L001
R2014 LL004 SLAP_PGHB Pending 03/23/2010 03/23/2011 PGHB_6_PDRP01 DLAP_PGAE_PCG2 D001 U001 L001
R2015 ms_76_SCEW_4321 SLAP_SCEW Withdrawn 03/23/2010 03/24/2011 SCEW_6_PDRP01 D006 U002 L007
R2016 kl-0001-SLAP_PGCC SLAP_PGCC Duplicate 03/23/2010 03/24/2011 PGCC_1_PDRP01 D004 U001 L001
R2017 Test for PGF1 2 PDRP01 SLAP_PGF1 Withdrawn 03/23/2010 03/24/2011 PGF1_2_PDRP01 DLAP_PGAE_PCG2 D001 U001 L001
R2018 Test for PGHB 6 PDRP01 SLAP_PGHB Withdrawn 03/23/2010 03/24/2011 PGHB_6_PDRP01 DLAP_PGAE_PCG2 D001 U001 L001
R2019 Test for PGCC 1 PDRP01 SLAP_PGCC Confirmed 03/23/2010 03/24/2011 PGCC_1_PDRP01 DLAP_PGAE_SEES D004 U001 L004
1 2 3
Total : 50

After submitting a duplicate registration, the registration will be sent directly to the CAISO Operator for review, bypassing the LSE and the UDC.

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LSE Review

LSE Selecting a Task

After logging into the DRS, the Task Menu will appear.

The Task Menu will list:

Application –the application that will be used.
Instance –the Registration Approval Number.

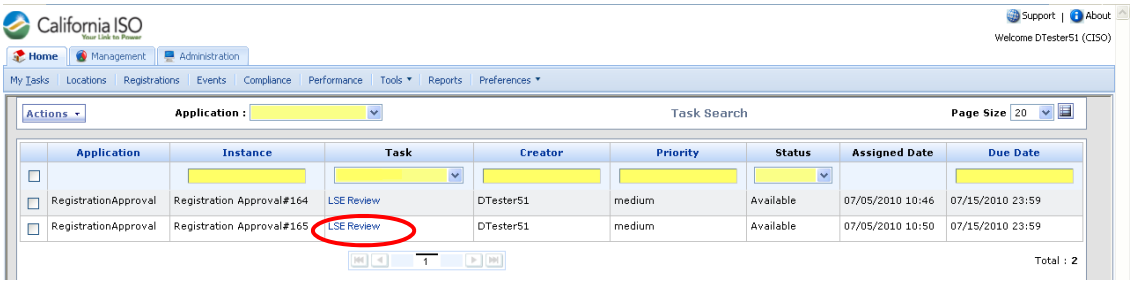
Task –the task that needs to be performed.

Creator –the User ID of the person who created the registration.

Priority –the Priority of the task.

Due Date – the date a task is due.

To select a task, click on a hyperlink from task you want from the task column.



LSE Reviewing a Task

After selecting a task for review, a user will be taken to the **Registration Detail** Screen.

On the **Decision** tab the user is able to view the LSE approval process and either **Approve** or **Deny** the DRP's Registration.

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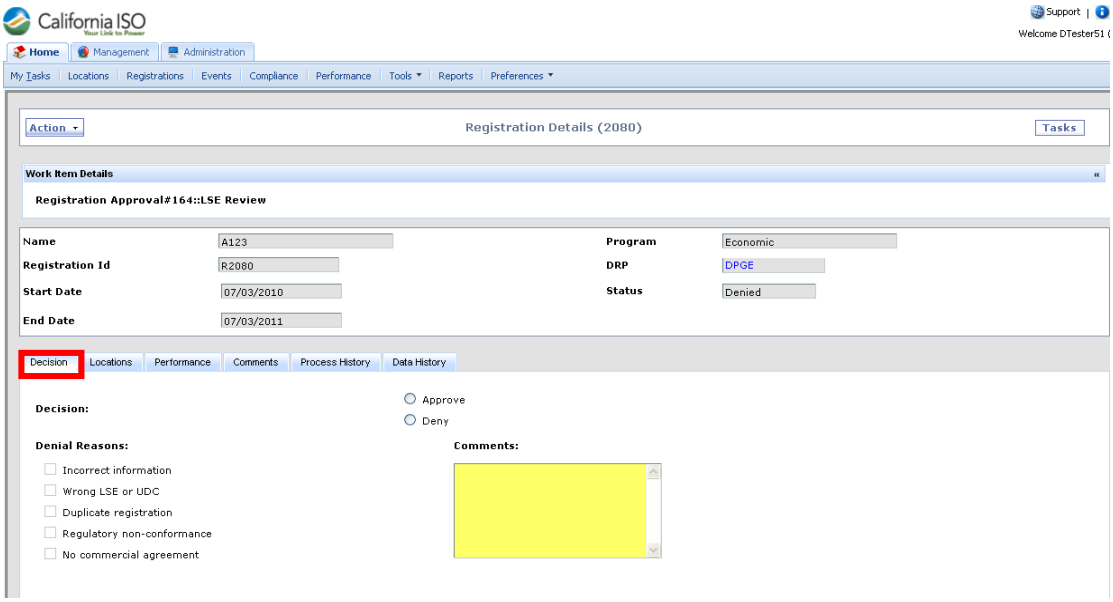

The LSE can obtain more information about the specific locations by clicking the **Locations** tab.

The Location tab includes the following information:

Name – A unique name for the registration assigned by the creator.

Program – User must select Economic program option

Registration ID – the registration ID of the registration, this ID is assigned by the DRS normally in sequential order

Status – The Current status of the Registration.

New – If the Registration has been saved but not submitted for review.
Pending – If the Registration is waiting for approval by the LSE / UDC / CAISO
Confirmed – If the resource is fully confirmed
Dispute – If the current Registration is under dispute
Withdrawn – The current Registration is in the process of being withdrawn.

Start Date – The start date of when the Registration will become effective

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End Date – The end date of when the Registration will become ineffective

SubLAP- The sub lap in which all the locations in the registration resides.

PDR_ID – The PDR resource ID

Assign Pre-Defined PDR – CAISO still has not assigned a Resource ID.
New Custom PDR – CAISO is currently developing a new resource ID for this registration (custom).
Existing Resource ID – Resource IDs previously assigned to the DRP account. (Should be selected if resource ID was pre assigned to location)

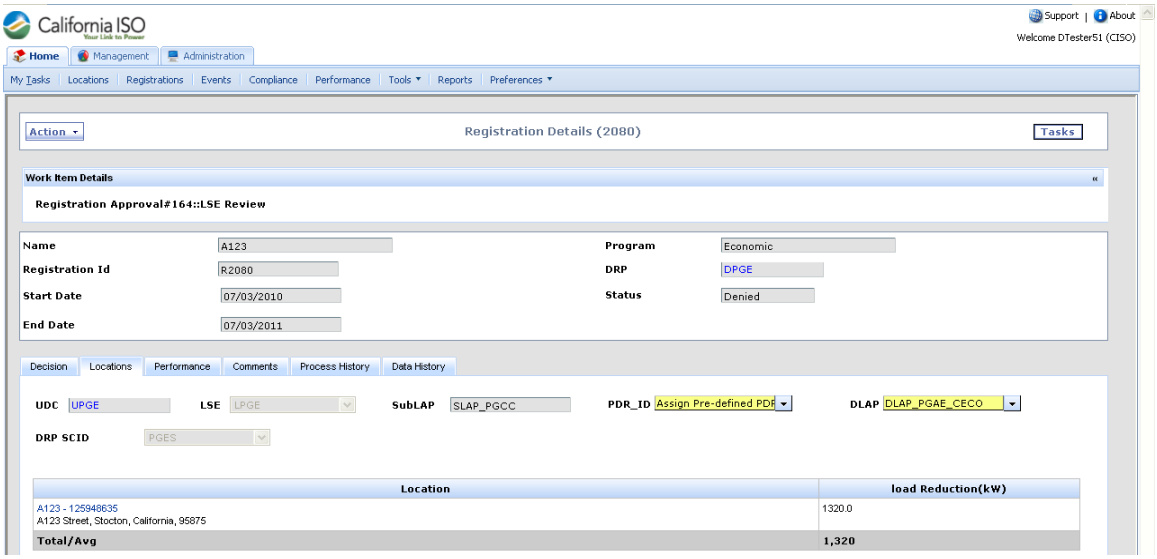
DLAP – The DLAP in which the Locations in the registrations resides

DRP – The DRP number of the DRP who created this registration

UDC – The UDC in which the Locations in the registrations resided and who must review. This is the ID that will be used by settlement to settle the load side charges

LSE – The Load Serving Entity.

DRP_SCID – The Scheduling Coordinator indicated by their SC_ID that the DRP has chosen to bid their resource into the market and submit their meter data for settlement.



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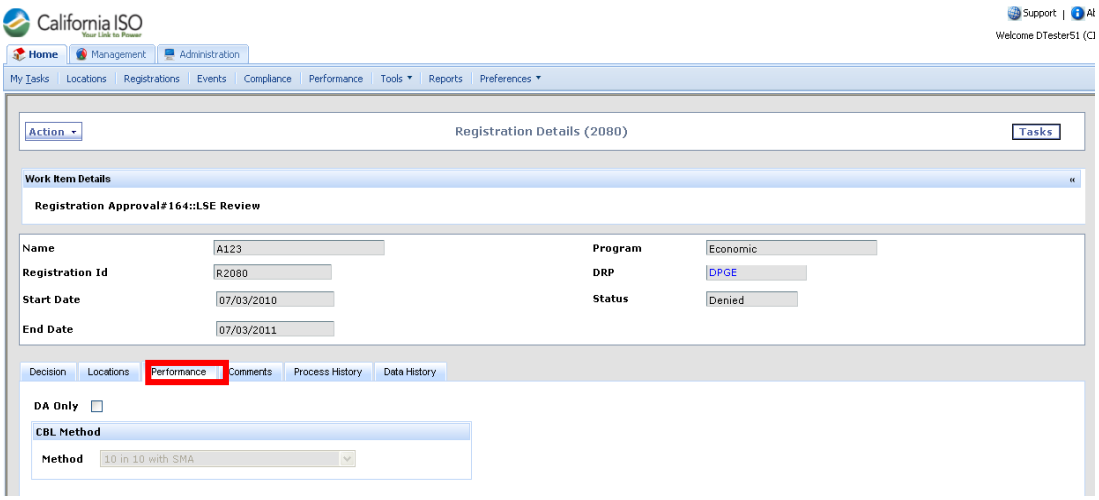
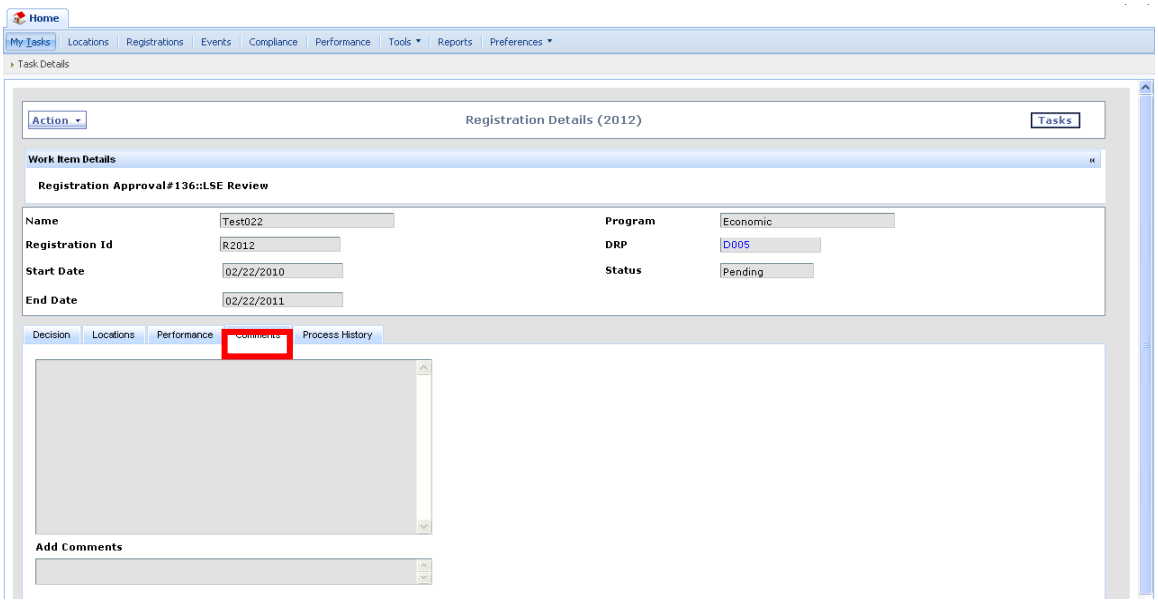
Information in this document is subject to change.

The **Performance** tab shows the CBL Method requested in the Registration, and if the resource is participating in only in the DA Energy Market.



If there any comments were submitted during the registration process, these can be viewed by the LSE in the **Comments** tab.



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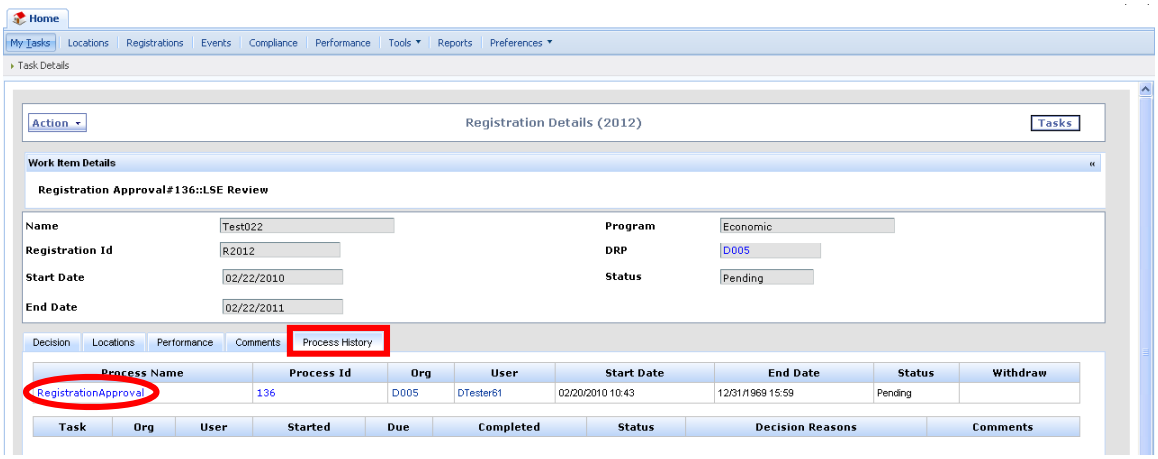
Information in this document is subject to change.

An LSE can get more detailed information about the specific task's history under the **Process History** tab and by clicking on the **RegistrationApproval** link.



LSE Reviewing a Registration

After selecting a task for review, a user will be taken to the **Registration Detail** Screen.

On the **Decision** tab the user is able to view the LSE approval process and either **Approve** or **Deny** the DRP's Registration.

To approve the DRP Registration as an LSE, chose the **Approve** radio button and then **Action >> Complete Task**. This task is now removed from the LSE home screen.

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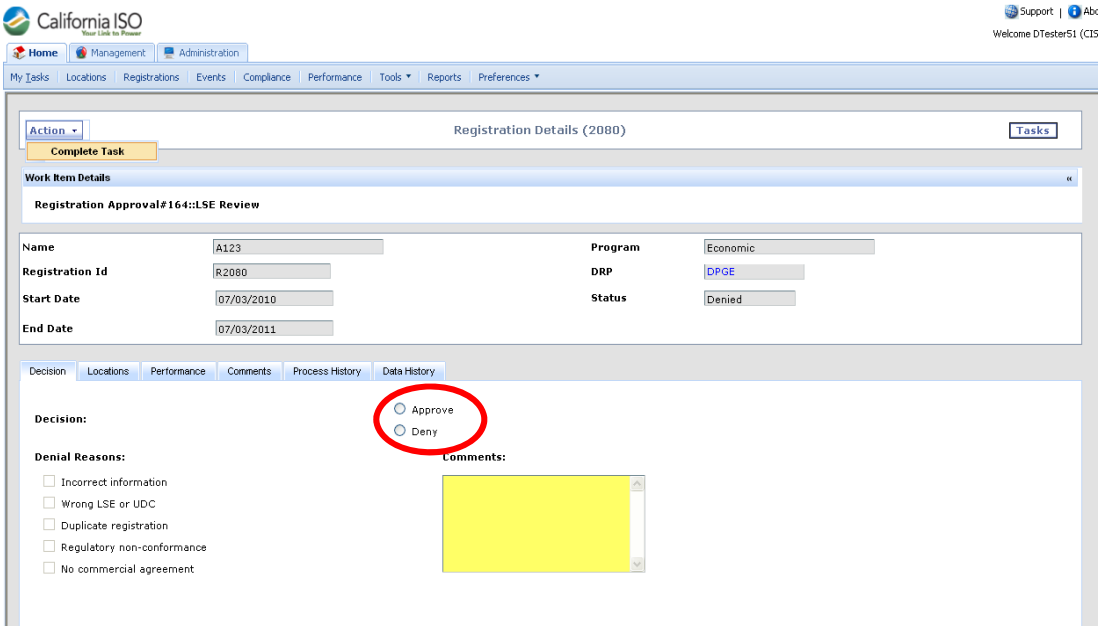
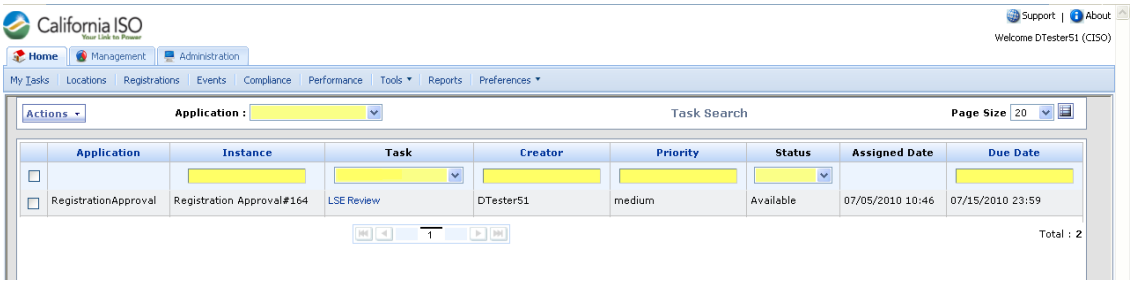
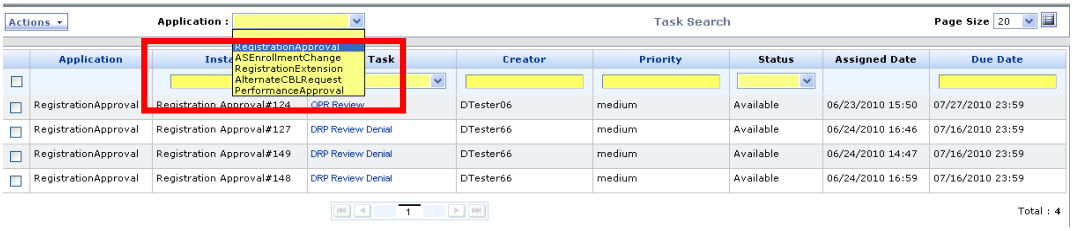


The task is removed from the task list.



LSE Reviewing Multiple Registrations at once

To gain greater detail for approving a task, a user can select the “Registration Approval” from Application menu.



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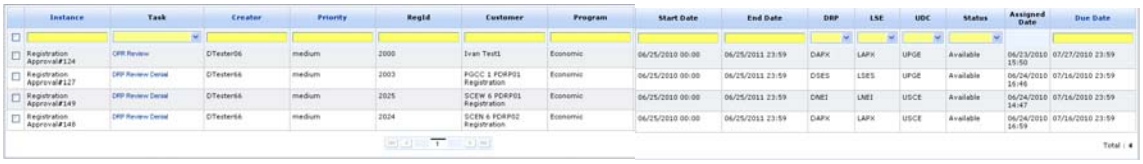
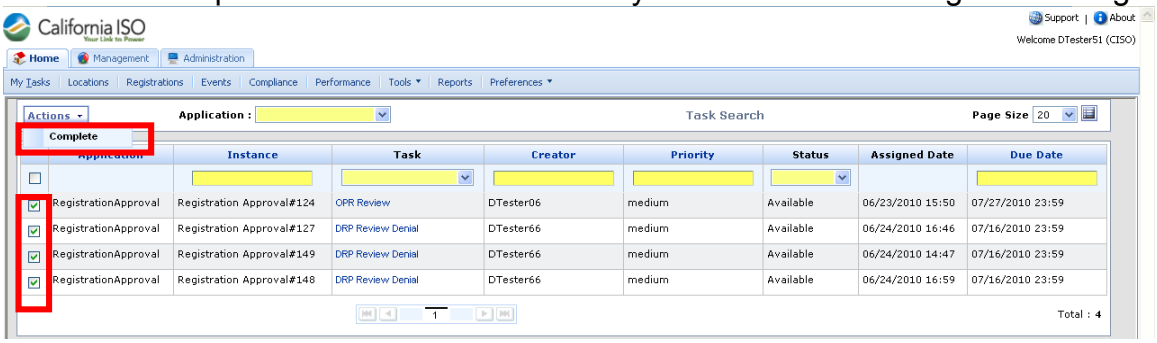
Information in this document is subject to change.

This will allow users to see:

- Registration Start Date
- Registration End Date
- Customer
- DRP
- LSE
- UDC
- Status



To approve multiple tasks at the same time, select tasks ready to approve. Then select Action >> Complete. An Error will occur if any information is missing for the Registration


California ISO
Support | About
Welcome DTester51 (CISO)
Home
Management
Administration
My Tasks | Locations | Registrations | Events | Compliance | Performance | Tools | Reports | Preferences
Actions
Complete
Application :
Task Search
Page Size 20
Application | Instance | Task | Creator | Priority | Status | Assigned Date | Due Date
RegistrationApproval | Registration Approval#124 | OPR Review | DTester06 | medium | Available | 06/23/2010 15:50 | 07/27/2010 23:59
RegistrationApproval | Registration Approval#127 | DRP Review Denial | DTester66 | medium | Available | 06/24/2010 16:46 | 07/16/2010 23:59
RegistrationApproval | Registration Approval#149 | DRP Review Denial | DTester66 | medium | Available | 06/24/2010 14:47 | 07/16/2010 23:59
RegistrationApproval | Registration Approval#148 | DRP Review Denial | DTester66 | medium | Available | 06/24/2010 16:59 | 07/16/2010 23:59
Total : 4

LSE Commenting on a Registration

After selecting a task for review, a user will be taken to the **Registration Detail** Screen.

On the **Decision** tab the user is able to view the LSE validation process and either **approve** or **Comment** on the DRP's Registration.

To comment on the DRP Registration as an LSE, write any exceptions the find to the registration and choose the **Approve** radio button. Select the appropriate reason(s) for denial, and then **Action >> Complete Task**.

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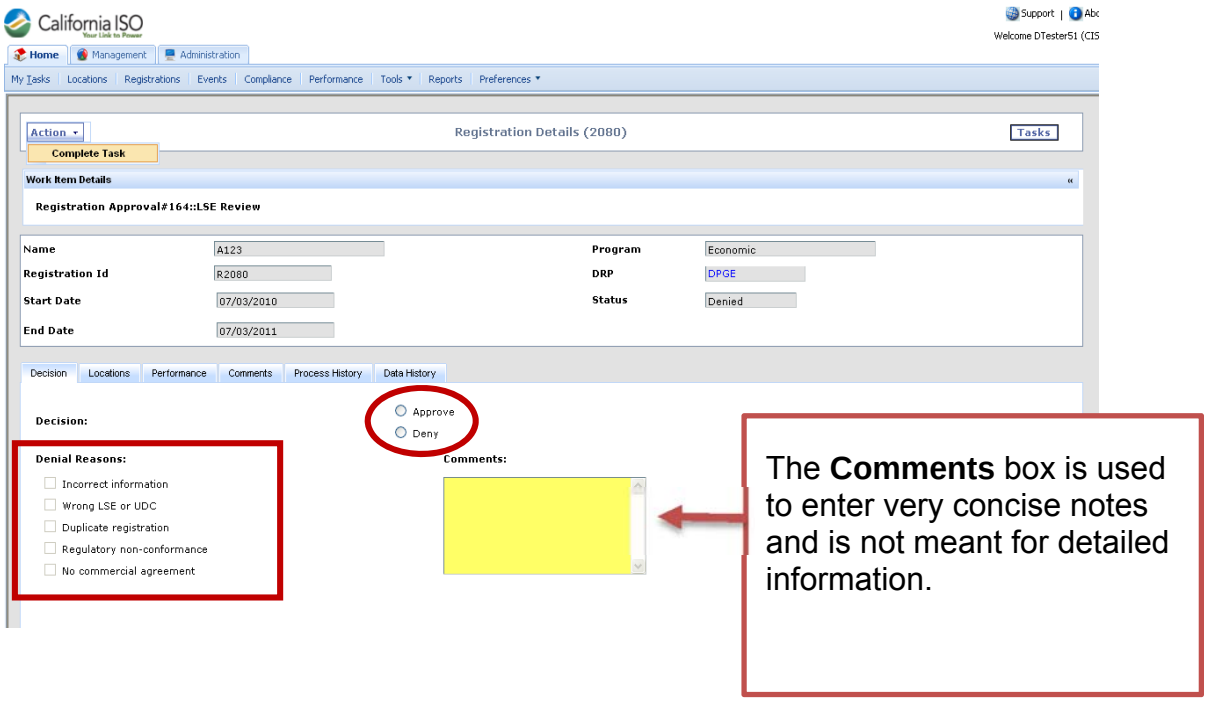
Denial Reasons:

- ☐ Incorrect information
- ☐ Wrong LSE or UDC
- ☐ Duplicate registration
- ☐ Regulatory non-conformance
- ☐ No commercial agreement



When the user has completed reviewing the Registration and updating the **Decision** tab, the user should then select **Action >> Complete Task**. The task is now removed from the LSE task screen.

Note: The **Comments** box is limited to **255** characters. If the LSE review generates comments larger than 255 characters.

When a comment is provided by the LSE indicating that there is a "review with findings" within the registration information, the CAISO will deny the registration. The DRP is

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required to resolve any issues related to the "findings" with the appropriate party. During that time, additional detail may be exchanged by parties to resolve all issues determined in the review process.

CAISO's responsibility is to look for general comments as to why there is an issue with the registration and therefore does not require listing of multiple SANs that may be in conflict with availability to participate. The 255 character limitation should be sufficient to provide the CAISO with enough information to deny the registration and request issue resolution be made between the parties outside of the registration process.

If the CAISO determines that there is error in the registration detail that needs to be corrected by the DRP, the registration will be denied as a means to alert the DRP of corrective actions that are being requested by the CAISO.

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UDC Review

UDC Selecting a Task

After logging into the DRS, the Task Menu will appear.

The Task Menu will list:

Application –the application that will be used.

Instance –the Registration Approval Number.

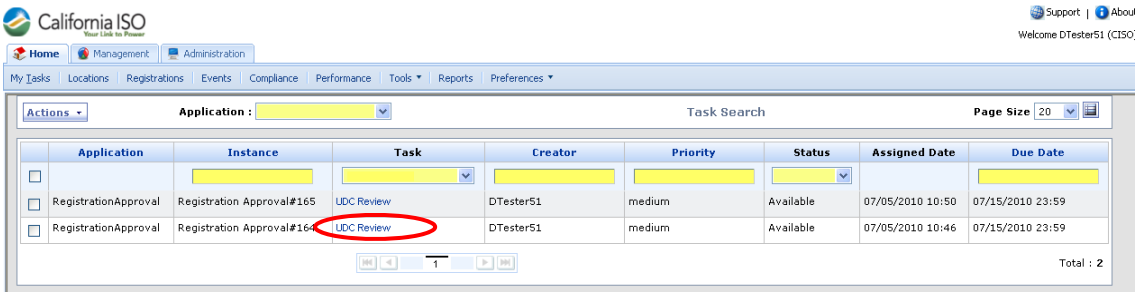
Task –the task that needs to be performed.

Creator –the User ID of the person who created the registration.

Priority –the Priority of the task.

Due Date –date a task is due.

To select a task click the hyperlink from task column.



UDC Reviewing a Task

After selecting a task for review, a user will be taken to the **Registration Detail** Screen.

On the **Decision** tab the user is able to view the UDC approval process and either **Approve** or **Deny** the DRP's Registration.

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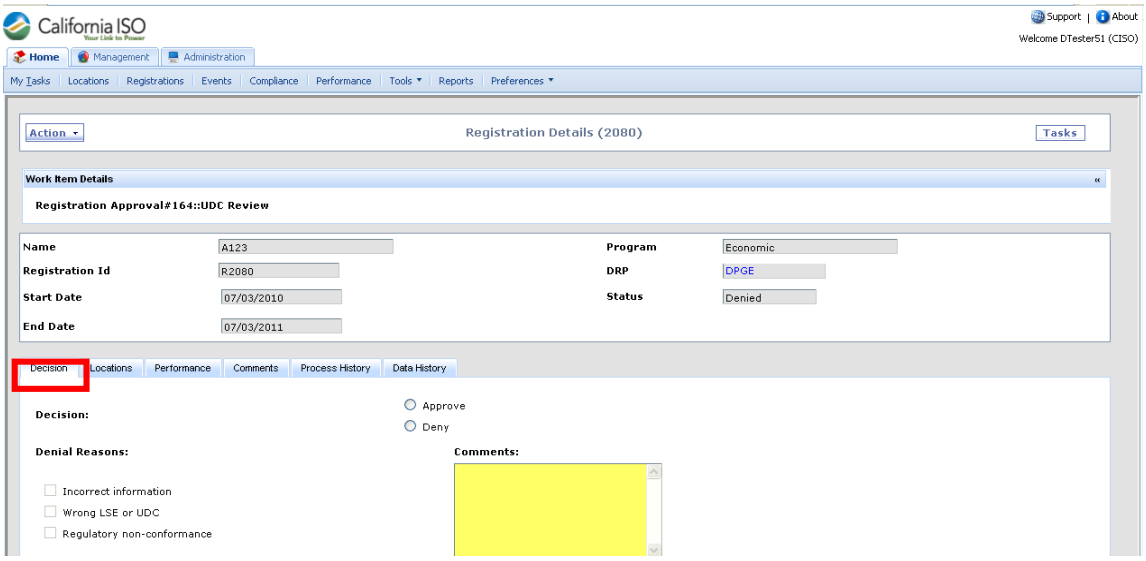

The UDC can obtain more information about the specific locations by clicking the **Locations** tab.

The Location tab includes the following information:

Name – A unique name for the registration assigned by the creator.

Program – User must select Economic program option

Registration ID – the registration ID of the registration, this ID is assigned by the DRS normally in sequential order

Status – The Current status of the Registration.

New – If the Registration has been saved but not submitted for review.
Pending – If the Registration is waiting for approval by the LSE / UDC / CAISO
Confirmed – If the resource is fully confirmed
Dispute – If the current Registration is under dispute
Withdrawn – The current Registration is in the process of being withdrawn.

Start Date – The start date of when the Registration will become effective

End Date – The end date of when the Registration will become ineffective

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SubLAP- The sub lap in which all the locations in the registration resides.

PDR_ID – The PDR resource ID

Assign Pre-Defined PDR – CAISO still has not assigned a Resource ID.
New Custom PDR – CAISO is currently developing a new resource ID for this registration (custom).
Existing Resource ID – Resource IDs previously assigned to the DRP account. (Should be selected if resource ID was pre assigned to location)

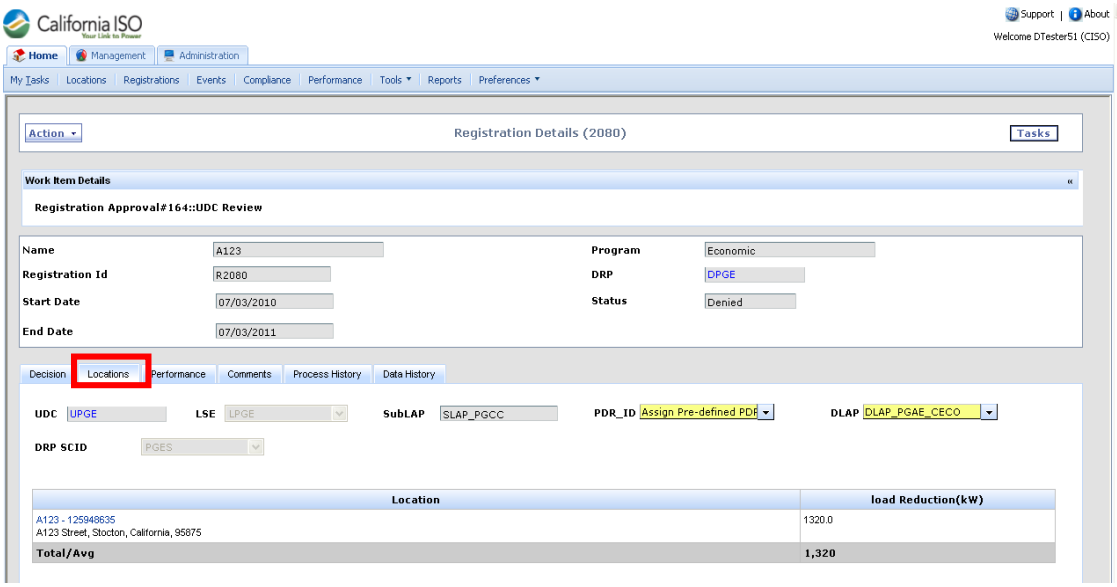
DLAP – The DLAP in which the Locations in the registrations resides

DRP – The DRP number of the DRP who created this registration

UDC – The UDC in which the Locations in the registrations resided and who must review.

LSE – The UDC in which the Locations in the registrations resided and who must review

DRP_SCID – The Scheduling Coordinator indicated by their SC_ID that the DRP has chosen to bid their resource into the market and submit their meter data for settlement.



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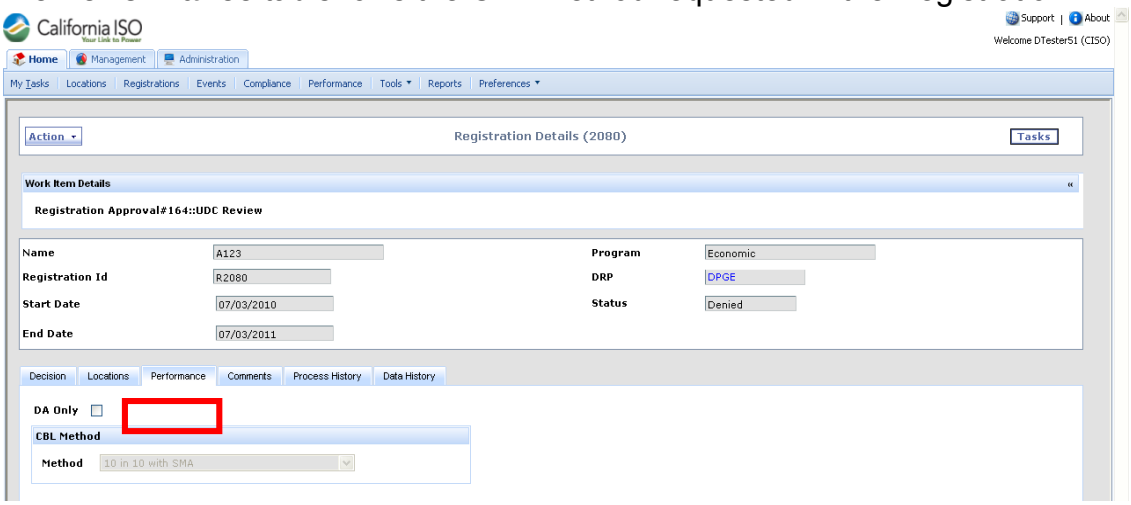
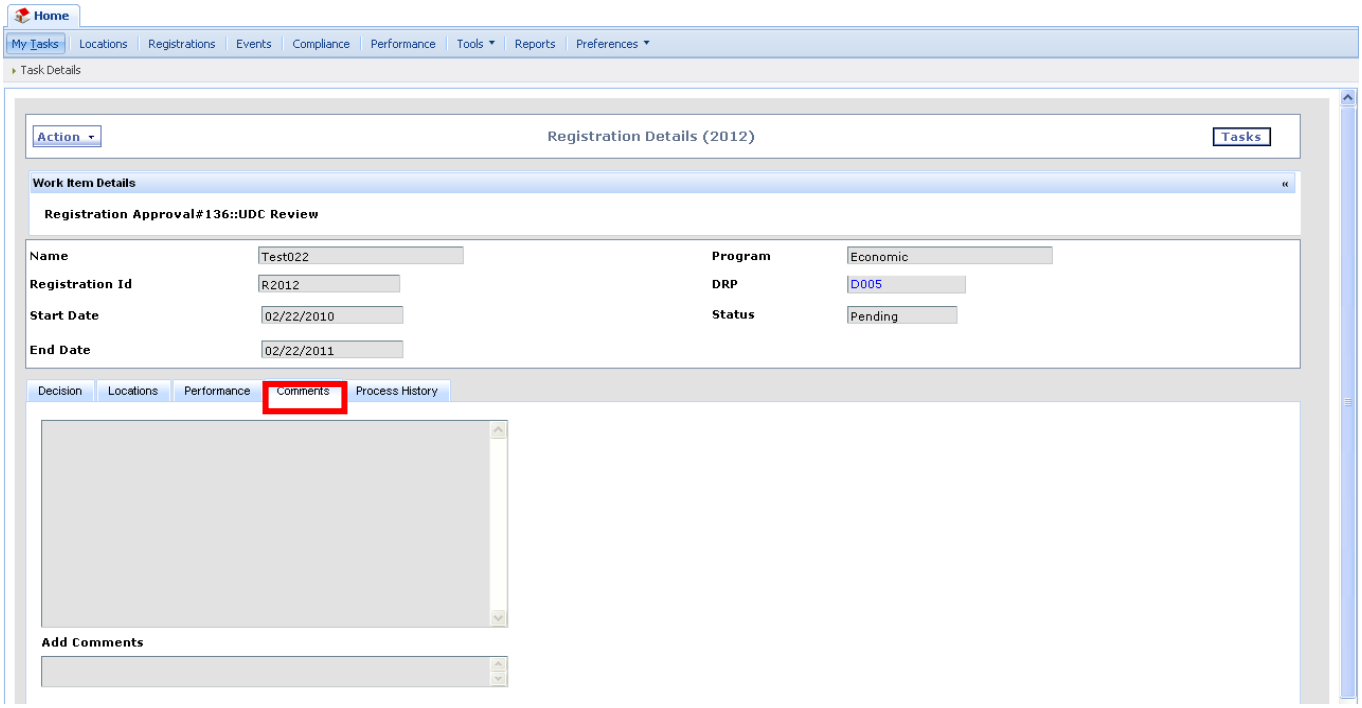
Information in this document is subject to change.

The **Performance** tab shows the CBL Method requested in the Registration.



Any comments submitted during the registration process can be viewed by the UDC in the **Comments** tab.



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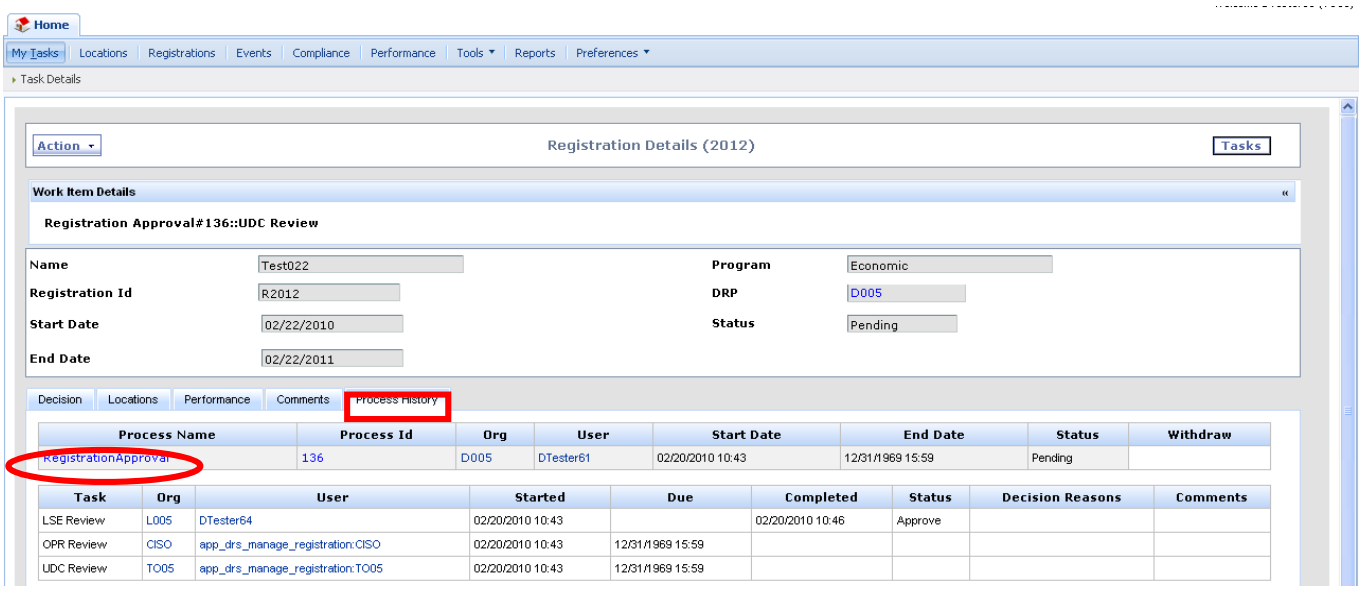
Information in this document is subject to change.

A UDC can get more detailed information about the specific task's history under the **Process History** tab and by clicking on the **Registration Approval** link.



UDC Reviewing a Registration

After selecting a task for review, a user will be taken to the **Registration Detail** screen.

On the **Decision** tab the user is able to view the UDC approval process and either **Approve** or **Deny** the DRP's Registration.

To approve the DRP Registration as a UDC, select the **Approve** radio button and then select **Action >> Complete Task**.

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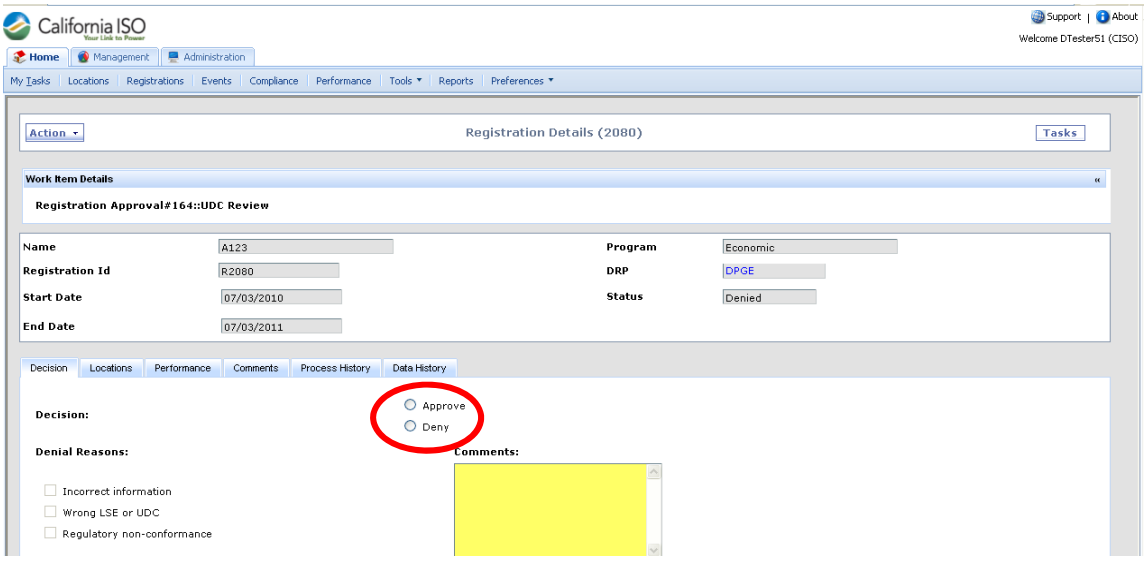
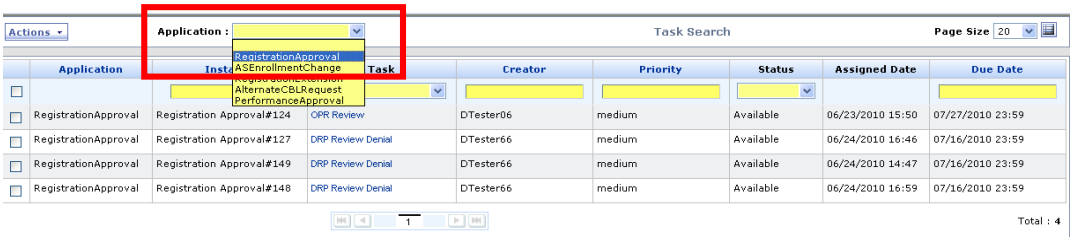


The approved task is now removed from the UDC home screen and moves to CAISO for final approval

UDC Reviewing Multiple Registrations at once

To gain greater detail for approving a task, a user can select the “Registration Approval” from Application menu.



This will allow users to see:

- Registration Start Date
- Registration End Date
- Customer
- DRP
- LSE
- UDC
- Status

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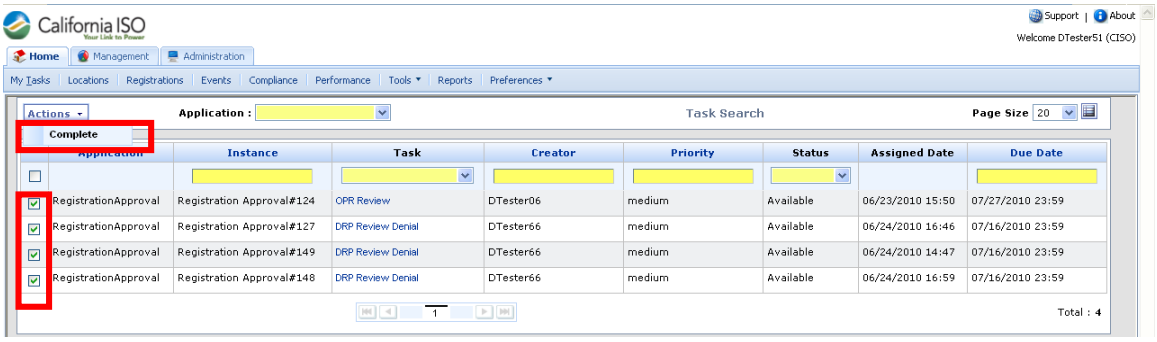
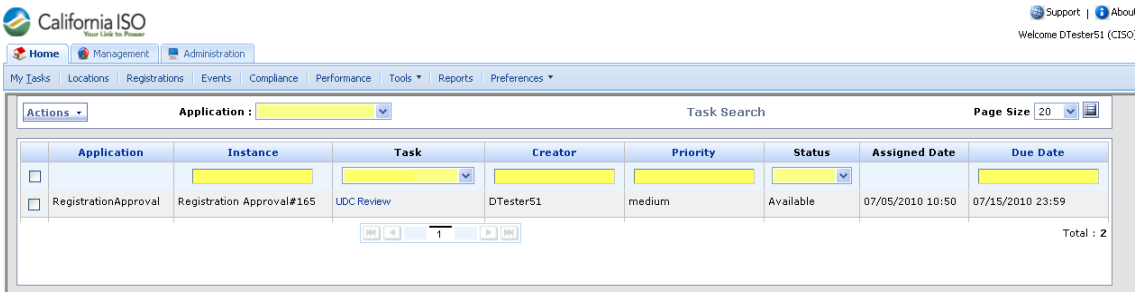
To approve multiple tasks at the same time, select tasks ready to approve. Then select Action >> Complete. An Error will occur if any information is missing for the Registration


California ISO
Support | About
Welcome DTester51 (CISO)
Home
Management
Administration
My Tasks | Locations | Registrations | Events | Compliance | Performance | Tools | Reports | Preferences
Actions
Complete
Application :
Task Search
Page Size 20
Application | Instance | Task | Creator | Priority | Status | Assigned Date | Due Date
RegistrationApproval | Registration Approval#124 | OPR Review | DTester06 | medium | Available | 06/23/2010 15:50 | 07/27/2010 23:59
RegistrationApproval | Registration Approval#127 | DRP Review Denial | DTester66 | medium | Available | 06/24/2010 16:46 | 07/16/2010 23:59
RegistrationApproval | Registration Approval#149 | DRP Review Denial | DTester66 | medium | Available | 06/24/2010 14:47 | 07/16/2010 23:59
RegistrationApproval | Registration Approval#148 | DRP Review Denial | DTester66 | medium | Available | 06/24/2010 16:59 | 07/16/2010 23:59
Total : 4


California ISO
Support | About
Welcome DTester51 (CISO)
Home
Management
Administration
My Tasks | Locations | Registrations | Events | Compliance | Performance | Tools | Reports | Preferences
Actions
Application :
Task Search
Page Size 20
Application | Instance | Task | Creator | Priority | Status | Assigned Date | Due Date
RegistrationApproval | Registration Approval#165 | UDC Review | DTester51 | medium | Available | 07/05/2010 10:50 | 07/15/2010 23:59
Total : 2

UDC Commenting on a Registration

After selecting a task for review, a user will be taken to the **Registration Detail** screen.

On the **Decision** tab the user is able to view the UDC review process and either **Approve** and /or **Comment** on the DRP's Registration.

To Comment on the DRP Registration as a UDC the user can enter comment in the comment field, then chose the **Approve** radio button, select the appropriate reason(s) for denial, and then **Action >> Complete Task**.

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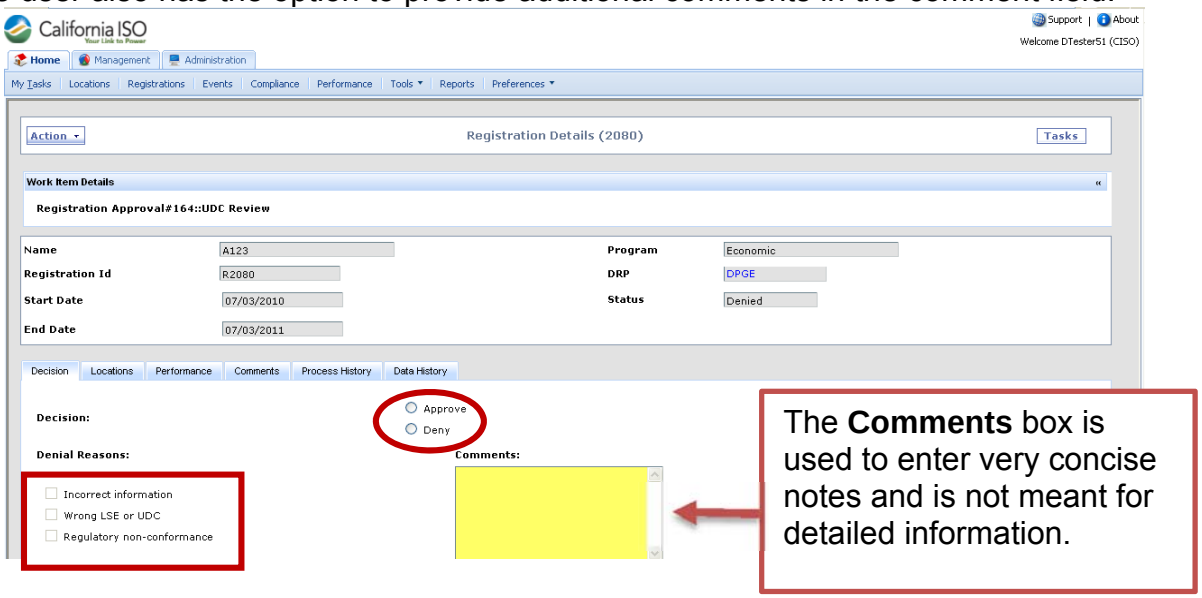
Denial Reasons:

- ☐ Incorrect information
- ☐ Wrong LSE or UDC
- ☐ Regulatory non-conformance

The user also has the option to provide additional comments in the comment field.



When the user has completed reviewing the Registration and updating the **Decision** tab, the user should then select **Action >> Complete Task**. The task is now removed from the UDC task screen.

Note: The **Comments** box is limited to **255** characters. If the UDC review generates comments larger than 255 characters.

When a comment is provided by the UDC indicating that there is a “review with findings” within the registration information, the CAISO will deny the registration. The DRP is required to resolve any issues related to the "findings" with the appropriate party. During that time, additional detail may be exchanged by parties to resolve all issues determined in the review process.

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Information in this document is subject to change.

CAISO's responsibility is to look for general comments as to why there is an issue with the registration and therefore does not require listing of multiple SANs that may be in conflict with availability to participate. The 255 character limitation should be sufficient to provide the CAISO with enough information to deny the registration and request issue resolution be made between the parties outside of the registration process.

If the CAISO determines that there is error in the registration detail that needs to be corrected by the DRP, the registration will be denied as a means to alert the DRP of corrective actions that are being requested by the CAISO.

CAISO Approval

CAISO Selecting a Task

After logging into the DRS, the task menu will appear.

The task menu will list:

Application –the application that will be used

Instance –the Registration Approval Number

Task –the task that needs to be performed.

Creator –the User ID of the person who created the registration.

Priority –the Priority of the task.

Assigned Date – the Date the task such as Registration review was created.

Due Date – the date a task is due.

To select a task, click on a hyperlink in the task column.

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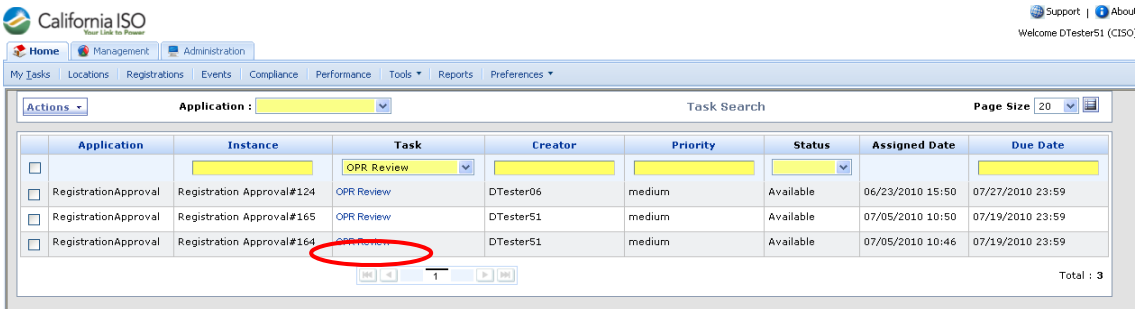

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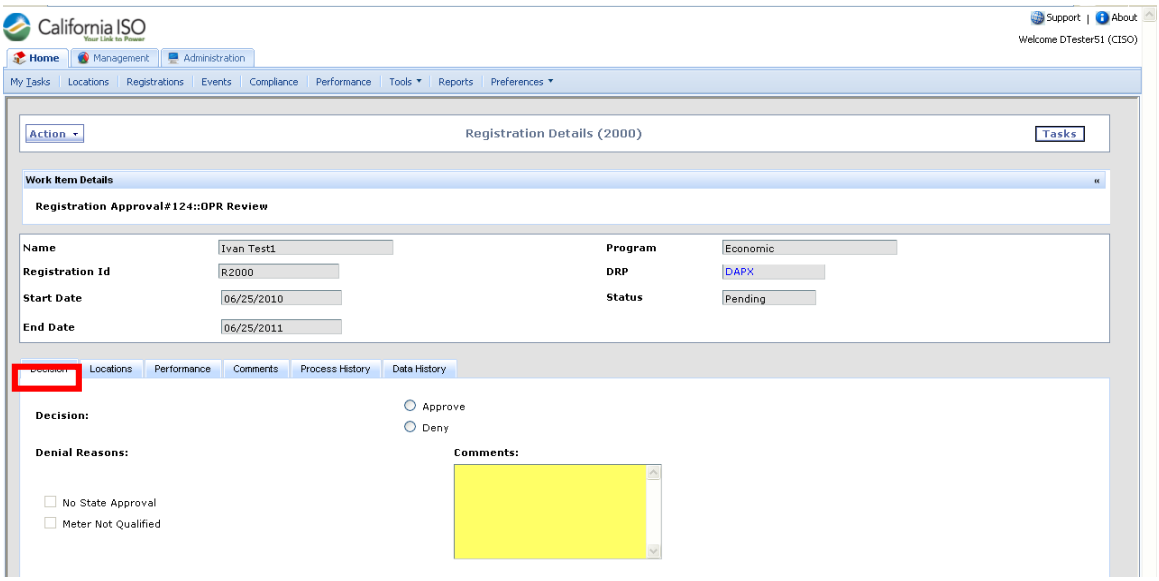
CAISO Reviewing a Task

After selecting a task for review, a user will be taken to the **Registration Detail** screen.

On the **Decision** tab the user is able to view the UDC approval process and either **Approve** or **Deny** the DRP's Registration.



The CAISO can obtain more information about the specific locations by clicking the **Locations** tab.

The Location tab includes the following information:

Name – A unique name for the registration assigned by the creator.

Program – User must select Economic program option

Registration ID – the registration ID of the registration, this ID is assigned by the DRS normally in sequential order

Status – The Current status of the Registration.

New – If the Registration has been saved but not submitted for review.
Pending – If the Registration is waiting for approval by the LSE / UDC / CAISO
Confirmed – If the resource is fully confirmed

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Information in this document is subject to change.

Dispute – If the current Registration is under dispute

Withdrawn – The current Registration is in the process of being withdrawn.

Start Date – The start date of when the Registration will become effective

End Date – The end date of when the Registration will become ineffective

SubLAP- The sub lap in which all the locations in the registration resides.

PDR_ID – The PDR resource ID
Assign Pre-Defined PDR – CAISO still has not assigned a Resource ID.
New Custom PDR – CAISO is currently developing a new resource ID for this registration (custom).
Existing Resource ID – Resource IDs previously assigned to the DRP account. (Should be selected if resource ID was preassigned to location)

DLAP – The DLAP in which the Locations in the registrations resides

DRP – The DRP number of the DRP who created this registration

UDC – The UDC in which the Locations in the registrations resided and who must review.

LSE – The LSE in which the Locations in the registrations resided and who must review

DRP_SCID – The Scheduling Coordinator indicated by their SC_ID that the DRP has chosen to bid their resource into the market and submit their meter data for settlement.

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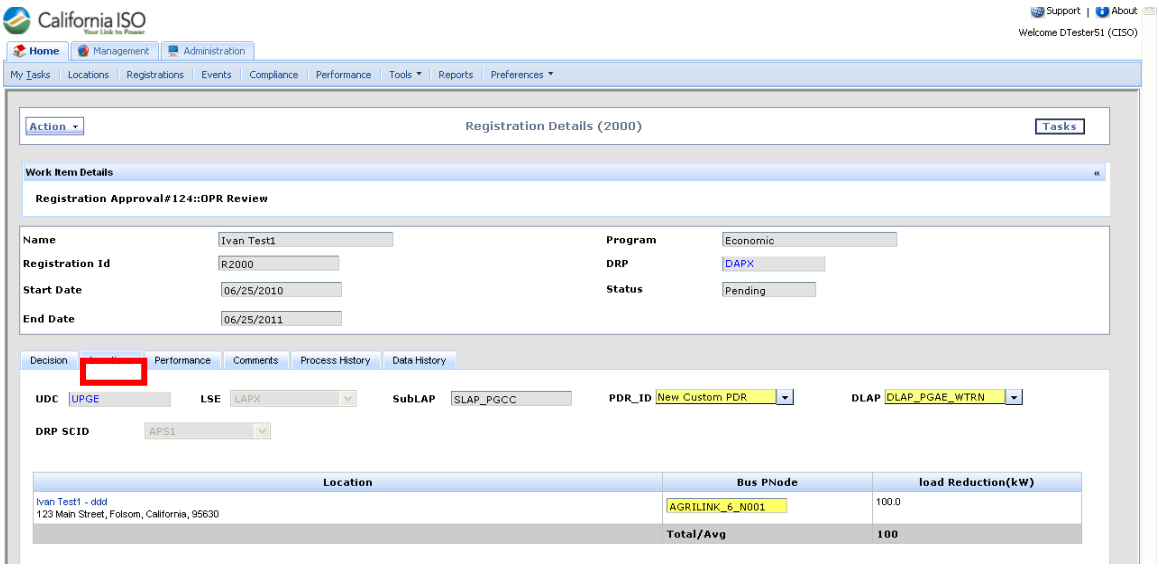
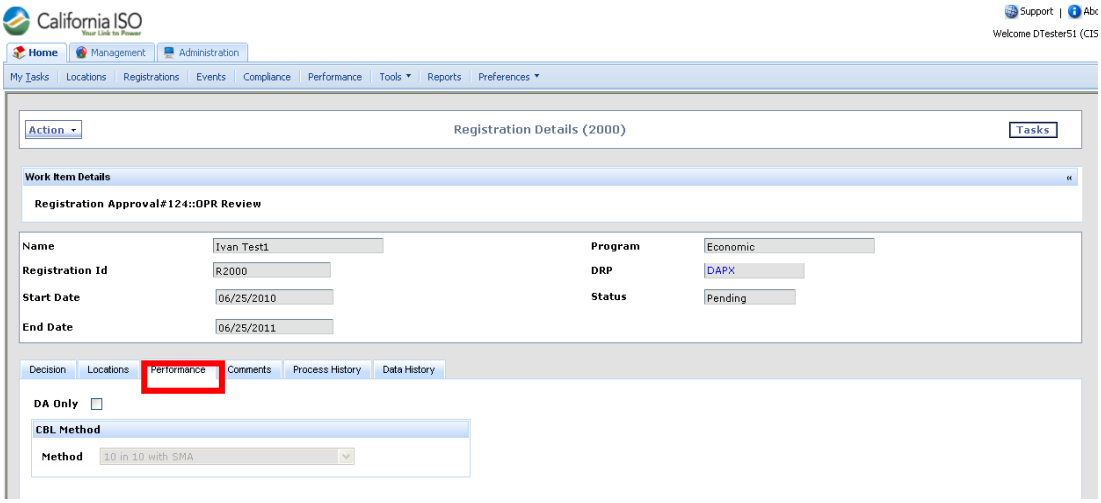


The **Performance** tab shows the CBL Method requested in the Registration.



Any comments submitted during the registration process can be viewed by the CAISO operator in the **Comments** tab.

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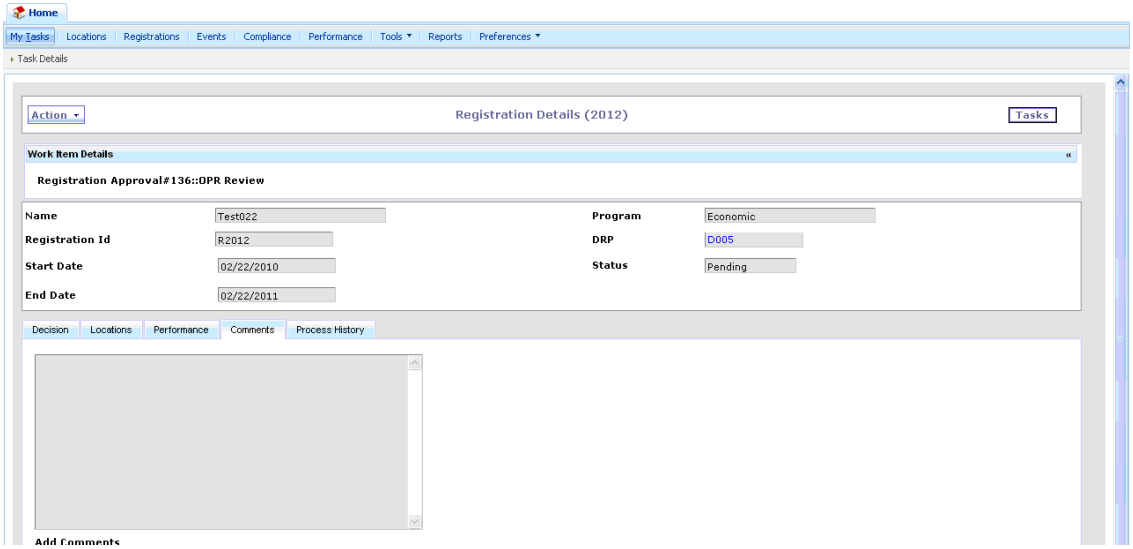
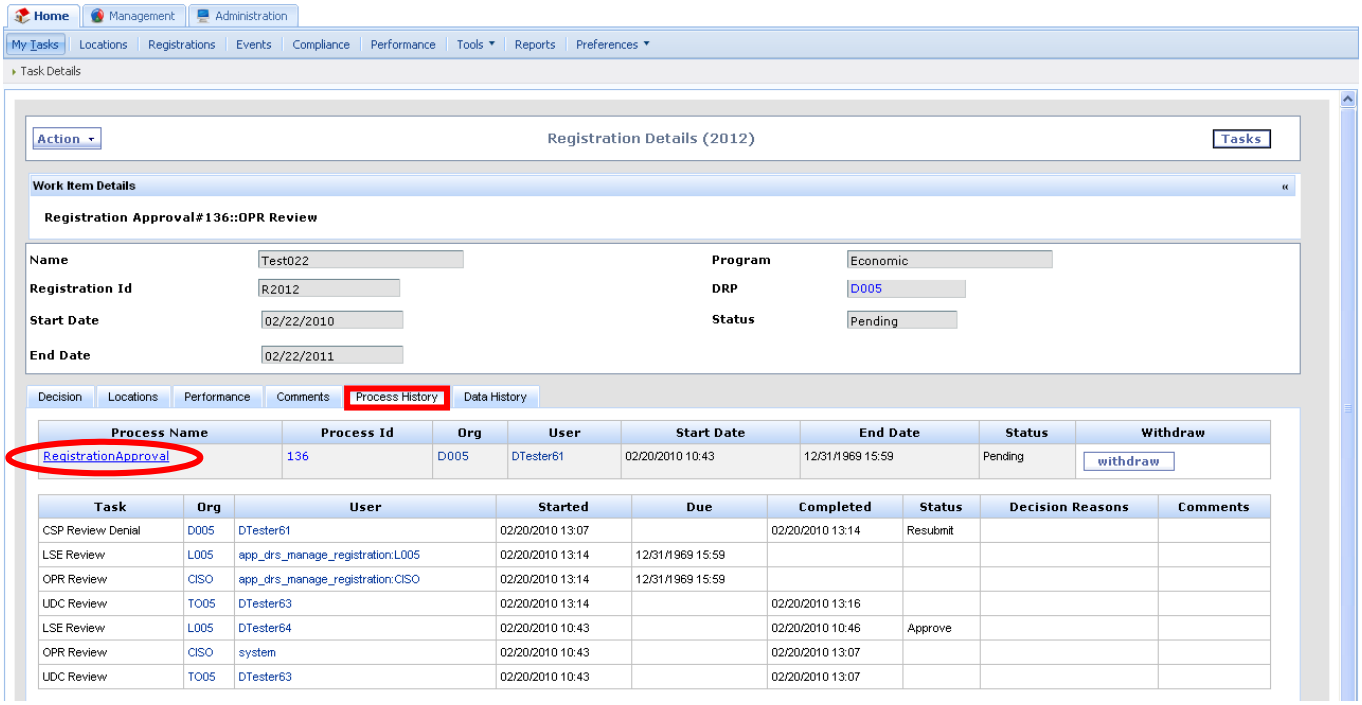


A CAISO Operator can get more detailed information about the specific task's history under the **Process History** tab and by clicking on the **RegistrationApproval** link.



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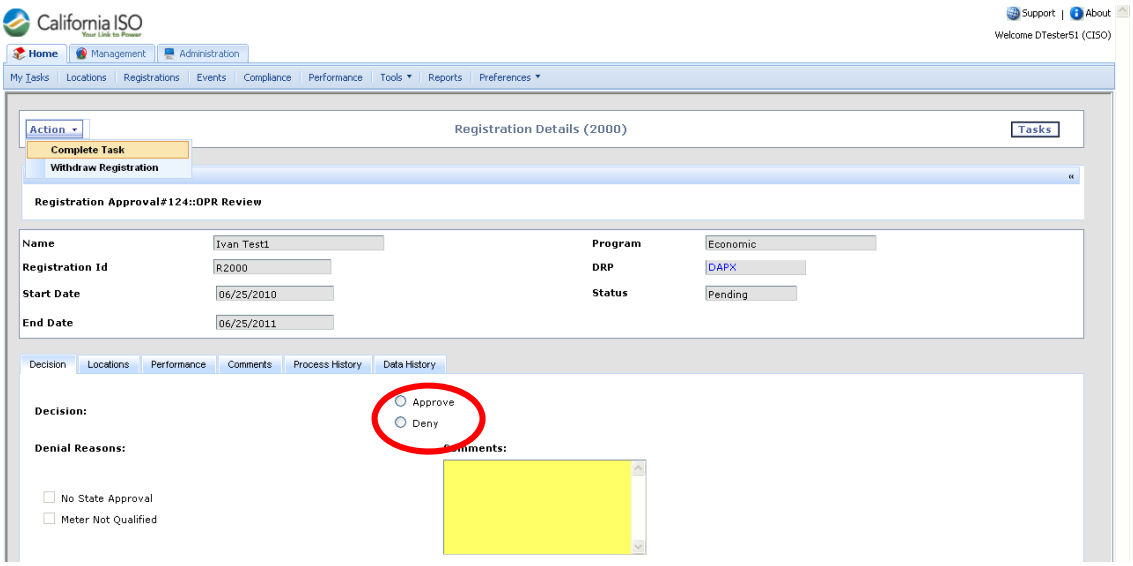
Information in this document is subject to change.

CAISO Approving a Registration

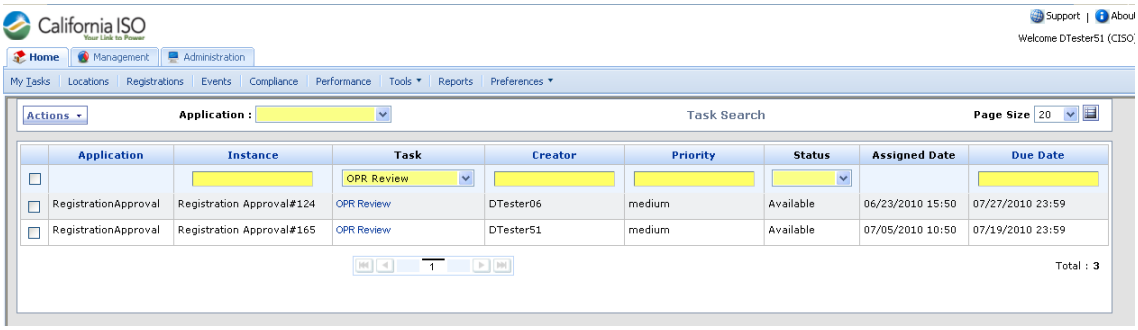
After selecting a task for review, a user will be taken to the **Registration Detail** screen.

On the **Decision** tab the user is able to view the CAISO approval process and either **Approve** or **Deny** the DRP's Registration.

To approve the DRP Registration as CAISO, select the **Approve** radio button and then select **Action >> Complete Task**.



If approved, the task is removed from the CAISO Operator Approval List.



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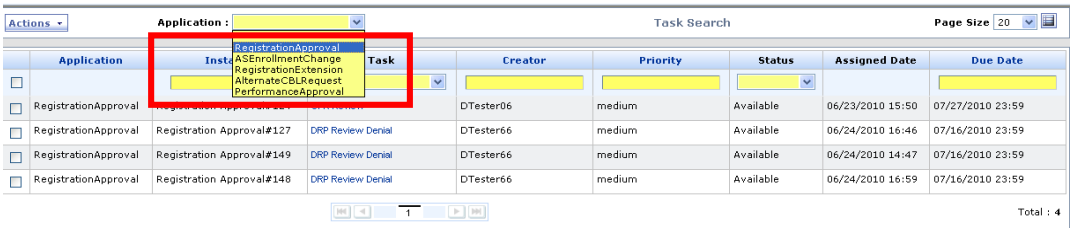
CAISO Approving Multiple Registrations at once

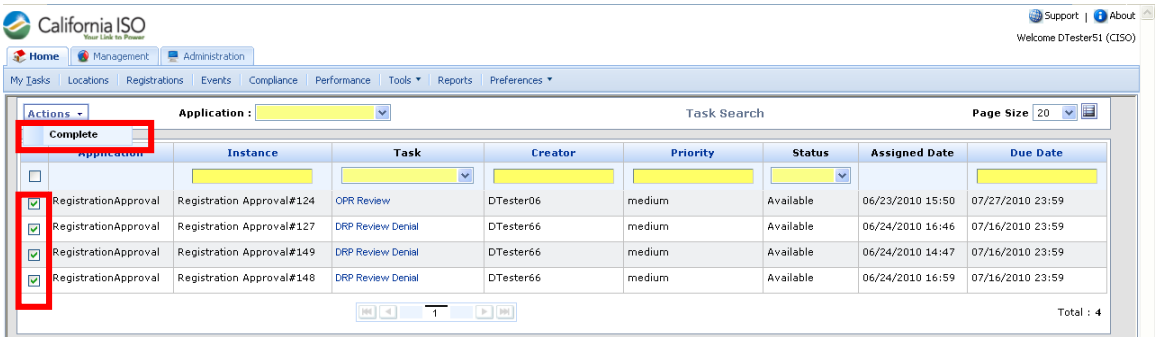
To gain greater detail for approving a task, a user can select the “Registration Approval” from Application menu.



This will allow users to see:

- Registration Start Date
- Registration End Date
- Customer
- DRP
- LSE
- UDC
- Status

To approve multiple tasks at the same time, select tasks ready to approve. Then select Action >> Complete. An Error will occur if any information is missing for the Registration



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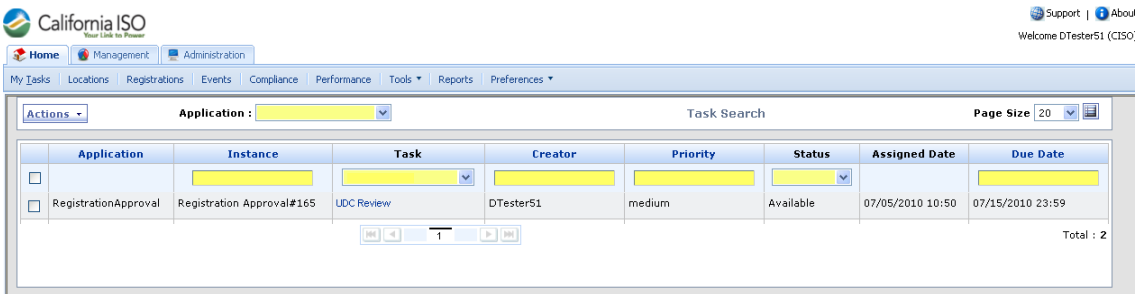

CAISO Deny a Registration

After selecting a task for review, a user will be taken to the **Registration Detail** screen.

On the **Decision** tab the user is able to view the CAISO approval process and either **Approve** or **Deny** the DRP's Registration.

To deny the DRP Registration as CAISO, chose the **Deny** radio button, select the appropriate reason(s) for denial, and then **Action >> Complete Task**.

Denial Reasons:

- ☐ No State Approval
- ☐ Meter Not Qualified

The User also has the option to provide additional comments in the comment field.

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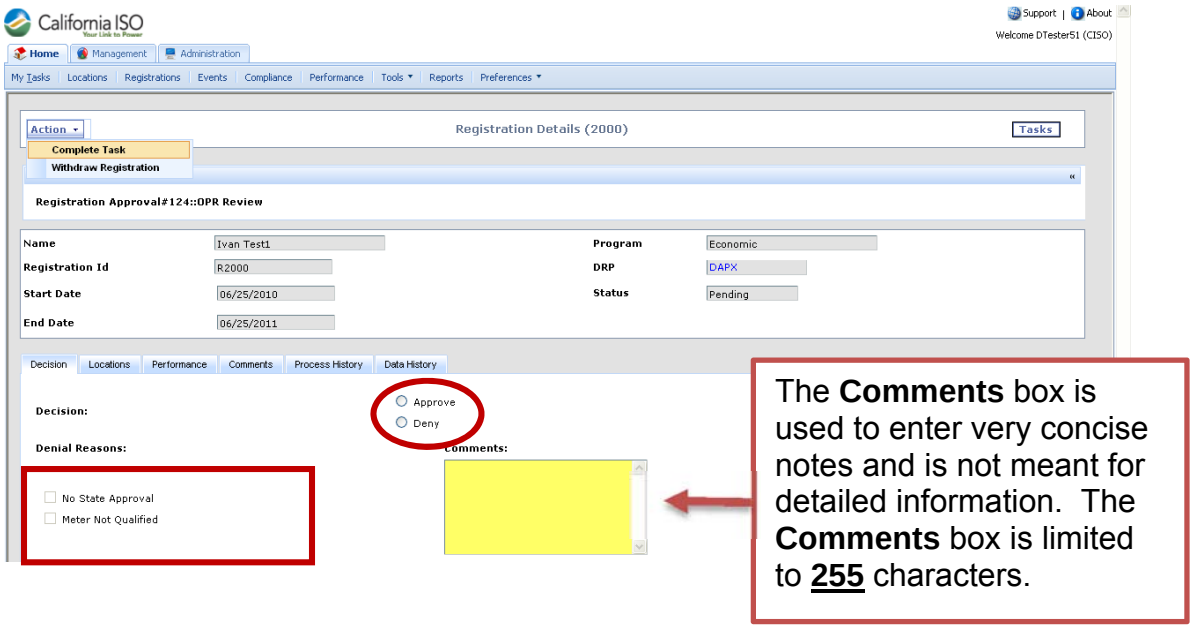

When the user has completed reviewing the Registration and updating the **Decision** tab they then select **Action >> Complete Task**. The task is now removed from the CAISO Task screen.

DRP Task Menu Registration Review

Selecting a Task

After Logging into the DRS, the Task Menu will appear.

The Task Menu will list:

Application – List the application that will be used.

Instance – List the Registration Approval Number

Task – List the task that needs to be performed

Creator – List the User ID of the person who created the registration

Priority – List the Priority of the Task

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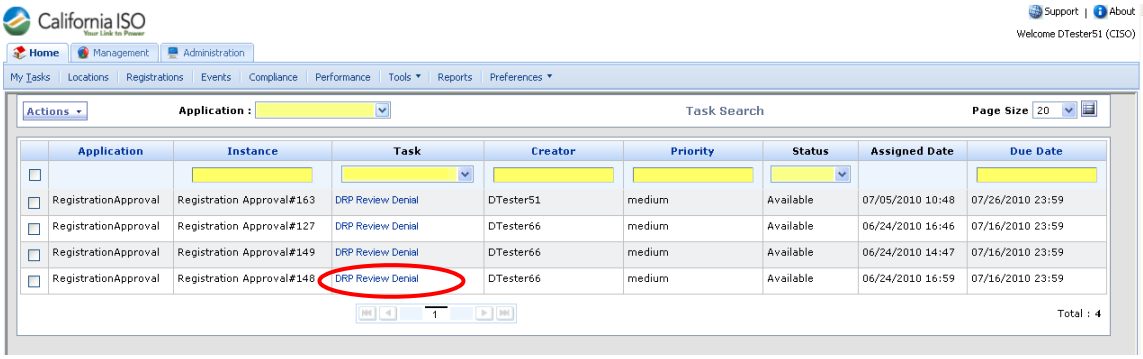
Assigned Date – The Date the Task such as Registration review was created

Due Date – The data a Task is due.

To Select a Task Click on a hyperlink from Task you want from the Task column.


California ISO
Support | About
Welcome DTester51 (CISO)
Home
Management
Administration
My Tasks | Locations | Registrations | Events | Compliance | Performance | Tools | Reports | Preferences
Actions
Application :
Task Search
Page Size 20
Application
Instance
Task
Creator
Priority
Status
Assigned Date
Due Date
RegistrationApproval | Registration Approval#163 | DRP Review Denial | DTester51 | medium | Available | 07/05/2010 10:48 | 07/26/2010 23:59
RegistrationApproval | Registration Approval#127 | DRP Review Denial | DTester66 | medium | Available | 06/24/2010 16:46 | 07/16/2010 23:59
RegistrationApproval | Registration Approval#149 | DRP Review Denial | DTester66 | medium | Available | 06/24/2010 14:47 | 07/16/2010 23:59
RegistrationApproval | Registration Approval#148 | DRP Review Denial | DTester66 | medium | Available | 06/24/2010 16:59 | 07/16/2010 23:59
Total : 4

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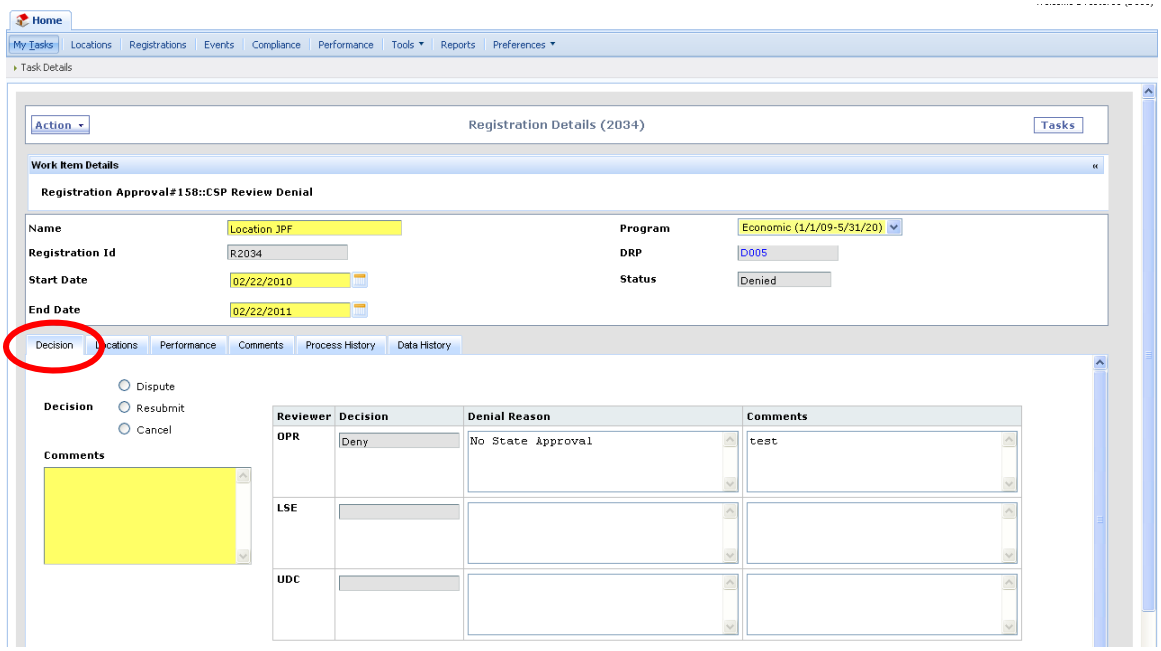
DRP Reviewing a Task

After selecting a Task for Review, you will be taken to the **Registration Detail** Screen.

The DRP can edit any field that is in yellow.

On the **Decision** Tab the User will be able to view the CAISO approval process allows the User to either **Dispute, Resubmit** or **Cancel** the Registration.

The User can view the comments which party approved and denied the registration, and list the Denial Reason and Comments.



The User can obtain more information about the specific locations by clicking the **Locations** tab.

The Location tab includes the following information:

Name – A unique name for the registration assigned by the creator.

Program – User must select Economic program option

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Registration ID – the registration ID of the registration, this ID is assigned by the DRS normally in sequential order
Status – The Current status of the Registration.

New – If the Registration has been saved but not submitted for review.
Pending – If the Registration is waiting for approval by the LSE / UDC / CAISO
Confirmed – If the resource is fully confirmed
Dispute – If the current Registration is under dispute
Withdrawn – The current Registration is in the process of being withdrawn.

Start Date – The start date of when the Registration will become effective

End Date – The end date of when the Registration will become ineffective

SubLAP- The sub lap in which all the locations in the registration resides.

PDR_ID – The PDR resource ID

Assign Pre-Defined PDR – CAISO still has not assigned a Resource ID.
New Custom PDR – CAISO is currently developing a new resource ID for this registration (custom).
Existing Resource ID – Resource IDs previously assigned to the DRP account. (Should be selected if resource ID was preassigned to location)

DLAP – The DLAP in which the Locations in the registrations resides

DRP – The DRP number of the DRP who created this registration

UDC – The UDC in which the Locations in the registrations resided and who must review.

LSE – The LSE in which the Locations in the registrations resided and who must review
DRP_SCID – The Scheduling Coordinator indicated by their SC_ID that the DRP has chosen to bid their resource into the market and submit their meter data for settlement.

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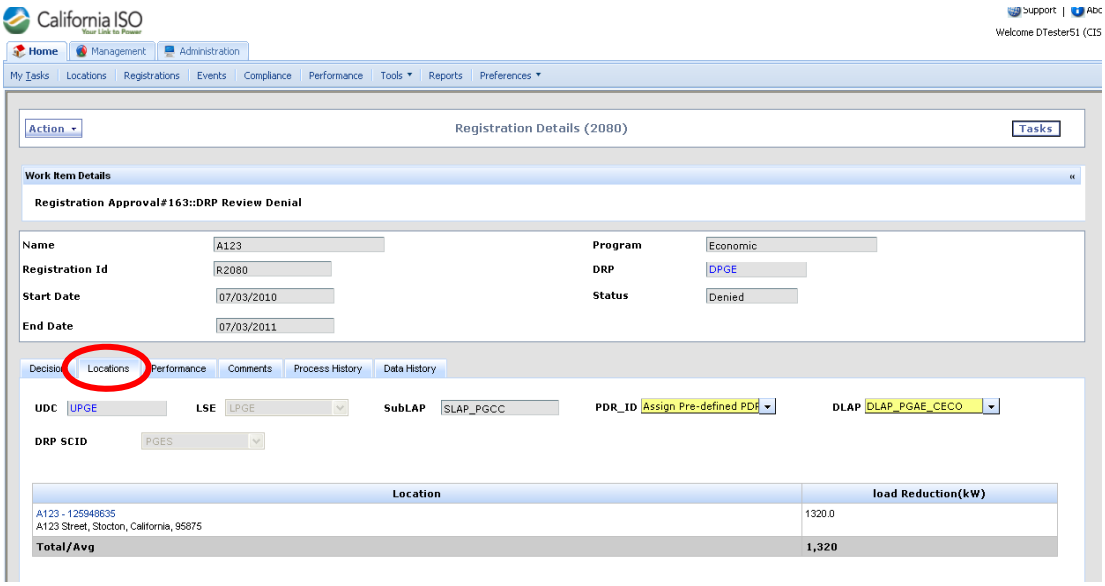
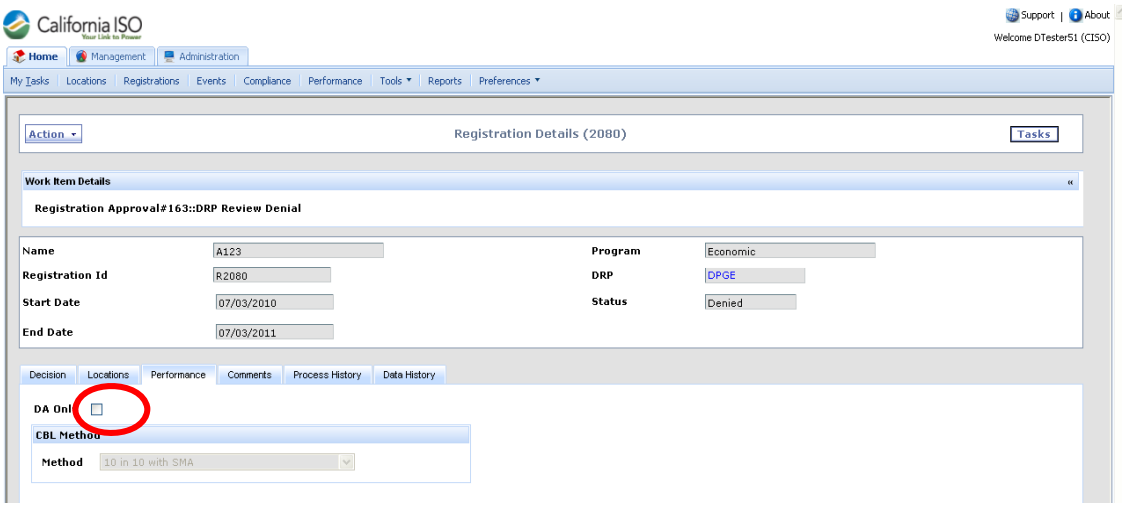


The Performance Tab shows the CBL Method requested in the Registration and can be accessed by clicking **Performance** tabs.



If there was any submitted comment during the registration process, these can be viewed by the User in the Comments tab.

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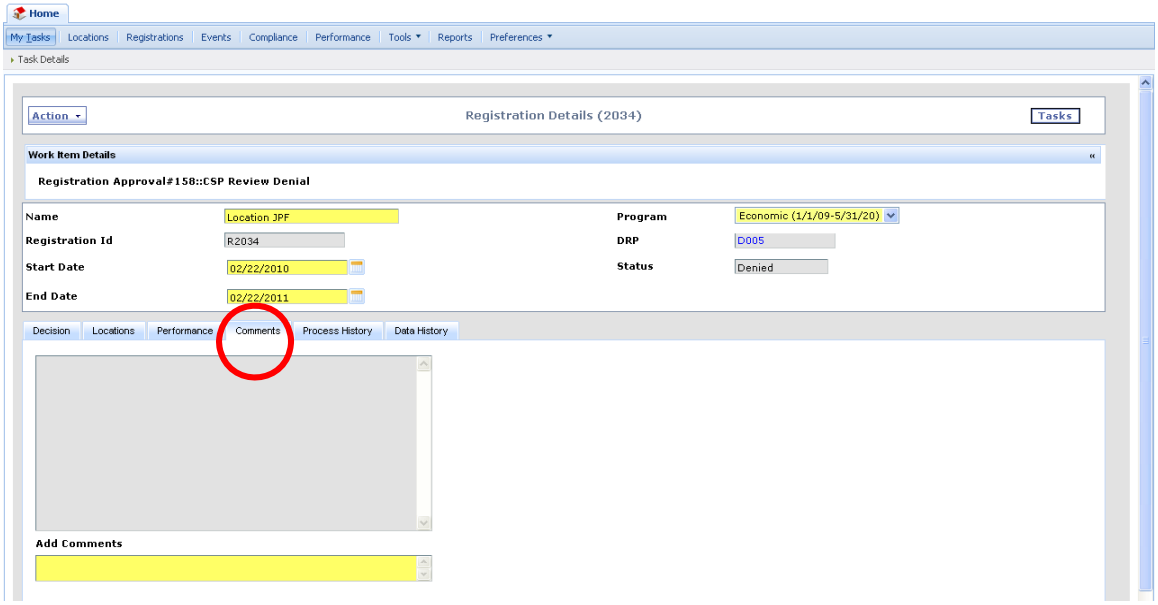
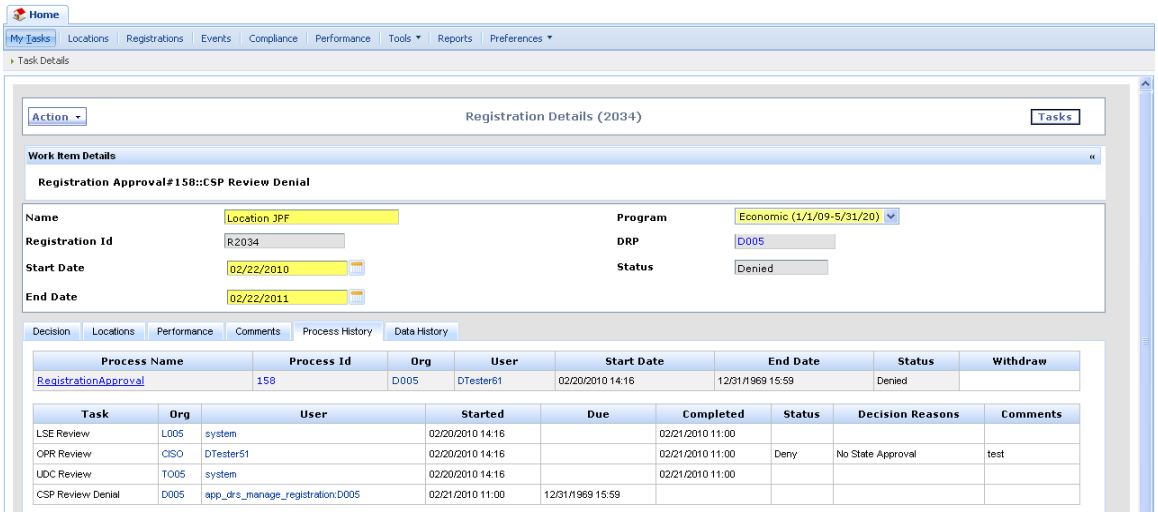


A User can get more detailed information about the specific task's history under the **Process History** tab and by clicking on the **RegistrationApproval** link.



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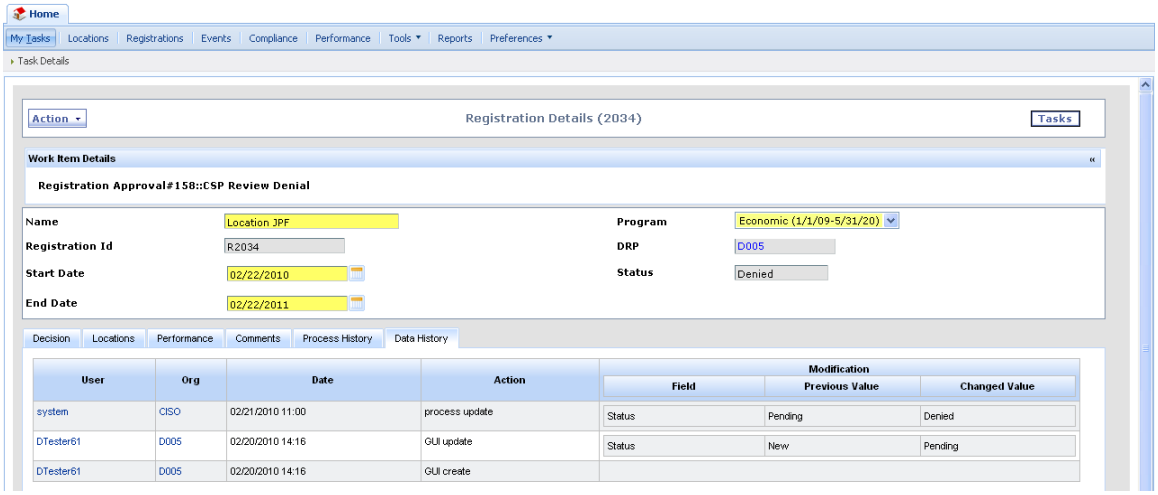
The Data History Tab list the history of the Registration status.



DRP Disputing a Registration

After selecting a Task for Review, you will be taken to the **Registration Detail** Screen.

The DRP can edit any field that is in yellow.

On the **Decision** Tab the User will be able to view the CAISO approval process allows the User to either **Dispute, Resubmit** or **Cancel** the Registration.

The User can view the comments which party approved and denied the registration, and list the Denial Reason and Comments.

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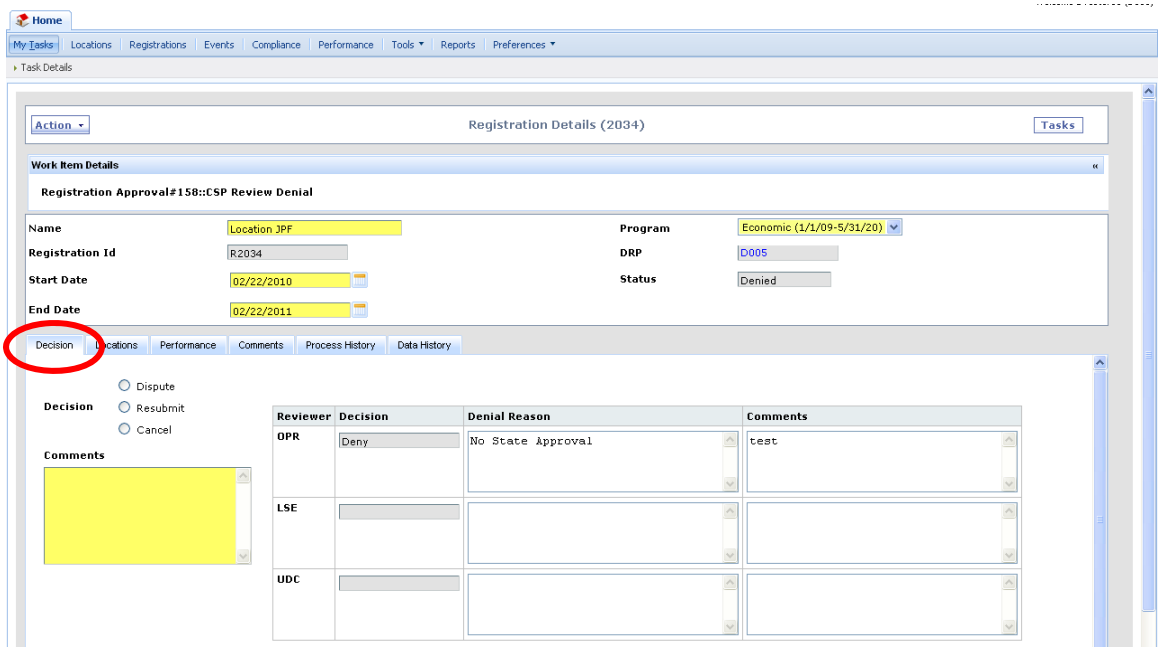

To dispute a registration, the User must select **Dispute** from the **Decision** tab, and provide comments on why they are disputing the Denial from the LSE, UDC, or CAISO (OPR).

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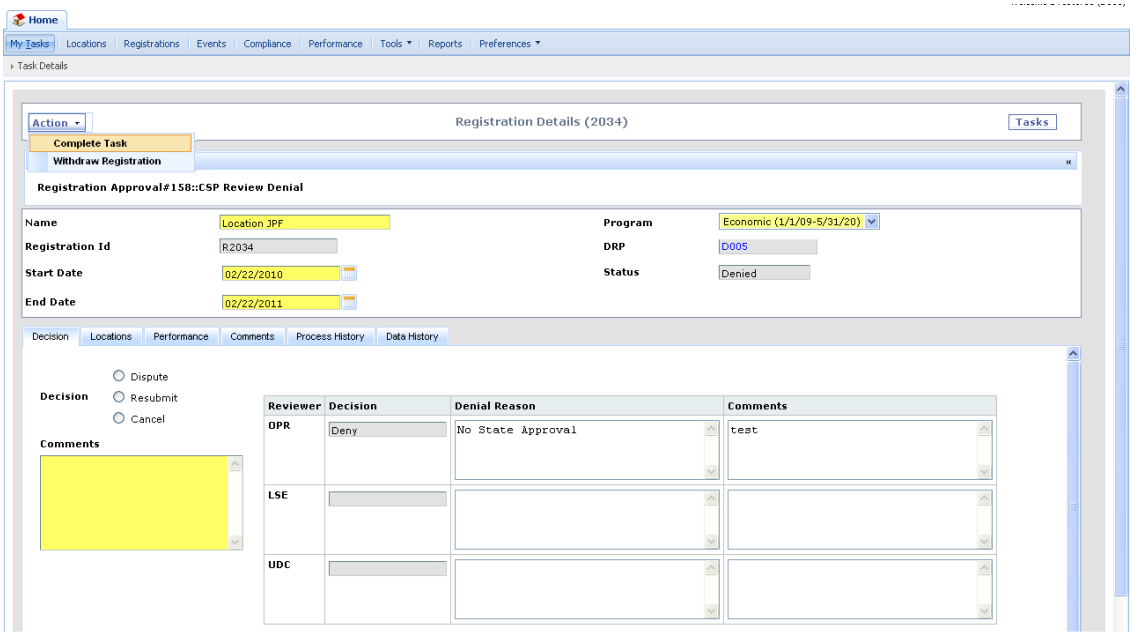

When completed, the User must click on **Action >> Complete Task.**

The Registration will then be sent to the CAISO for review.

DRP Resubmitting a Registration

After selecting a Task for Review, you will be taken to the **Registration Detail** Screen.

The DRP can edit any field that is in yellow.

On the **Decision** Tab the User will be able to view the CAISO approval process allows the User to either **Dispute, Resubmit** or **Cancel** the Registration.

The User can view the comments which party approved and denied the registration, and list the Denial Reason and Comments.

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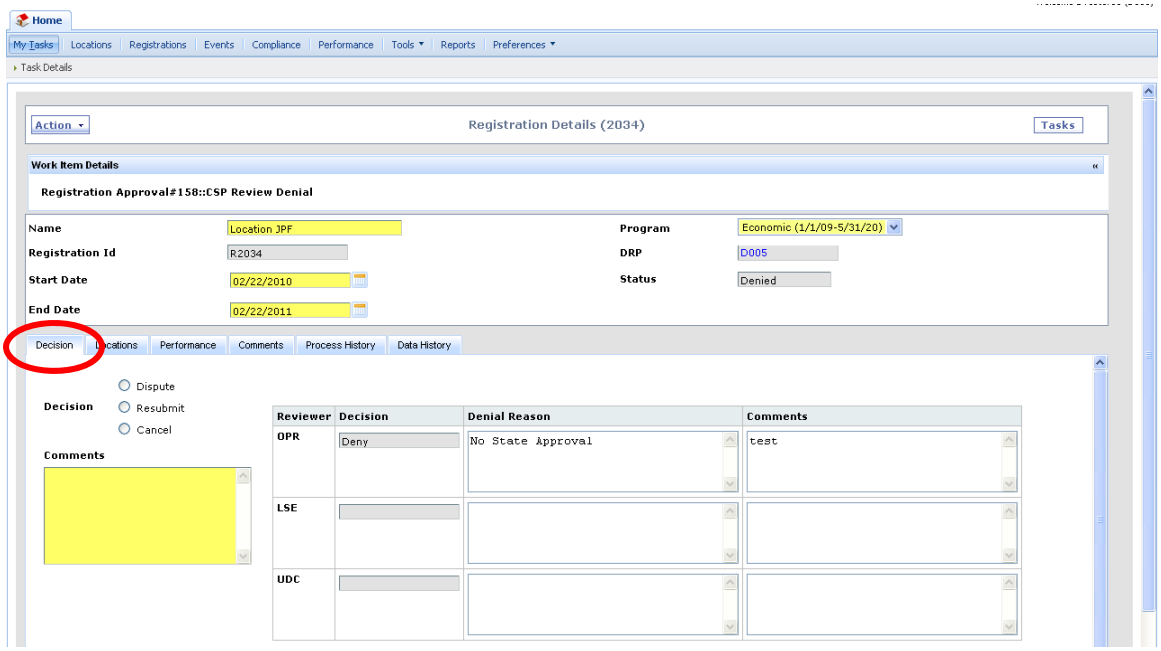

If comments request a minor change in the Users registration, such as modifying a start date, of choosing a different DLAP, the User can make those changes in the **Locations**, and **Performance** tabs.

The User can obtain more information about the specific locations by clicking the **Locations** tab.

The Location tab includes the following information:

Name – A unique name for the registration assigned by the creator.

Program – User must select Economic program option

Registration ID – the registration ID of the registration, this ID is assigned by the DRS normally in sequential order

Status – The Current status of the Registration.

New – If the Registration has been saved but not submitted for review.
Pending – If the Registration is waiting for approval by the LSE / UDC / CAISO
Confirmed – If the resource is fully confirmed
Dispute – If the current Registration is under dispute

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Withdrawn – The current Registration is in the process of being withdrawn.

Start Date – The start date of when the Registration will become effective

End Date – The end date of when the Registration will become ineffective

SubLAP- The sub lap in which all the locations in the registration resides.

PDR_ID – The PDR resource ID

Assign Pre-Defined PDR – CAISO still has not assigned a Resource ID.
New Custom PDR – CAISO is currently developing a new resource ID for this registration (custom).
Existing Resource ID – Resource IDs previously assigned to the DRP account. (Should be selected if resource ID was pre assigned to location)

DLAP – The DLAP in which the Locations in the registrations resides

DRP – The DRP number of the DRP who created this registration

UDC – The UDC in which the Locations in the registrations resided and who must review.

LSE – The LSE in which the Locations in the registrations resided and who must review

DRP_SCID – The Scheduling Coordinator indicated by their SC_ID that the DRP has chosen to bid their resource into the market and submit their meter data for settlement.

Only Fields in Yellow are modifiable.

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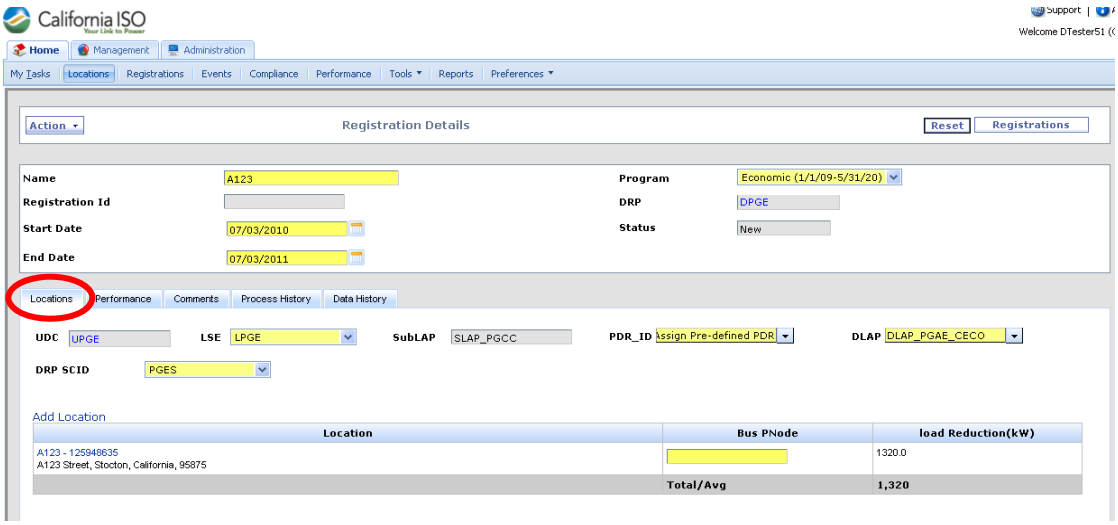
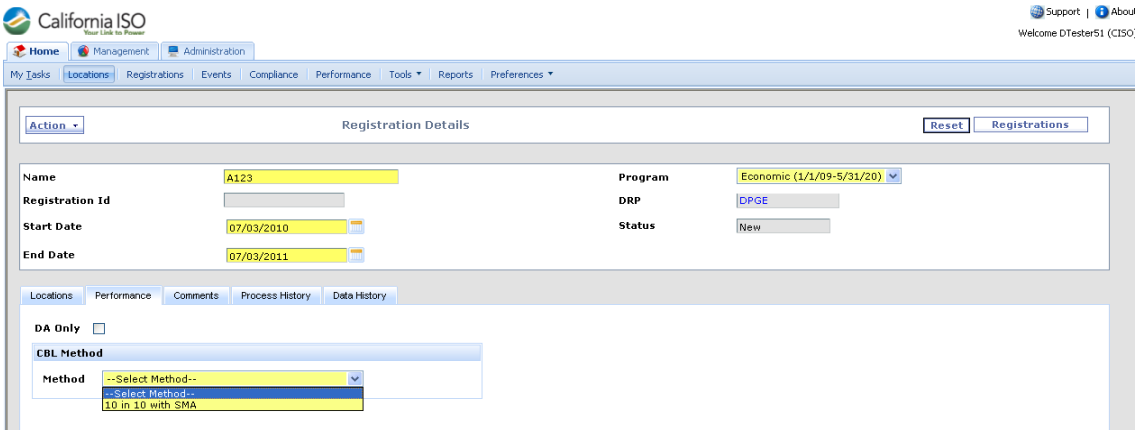


The Performance Tab shows the CBL Method requested in the Registration and can be accessed by clicking **Performance** tabs.



To complete resubmitting the registration, the User must select **Resubmit** from the **Decision** tab, and provide comments on the changes they have made.

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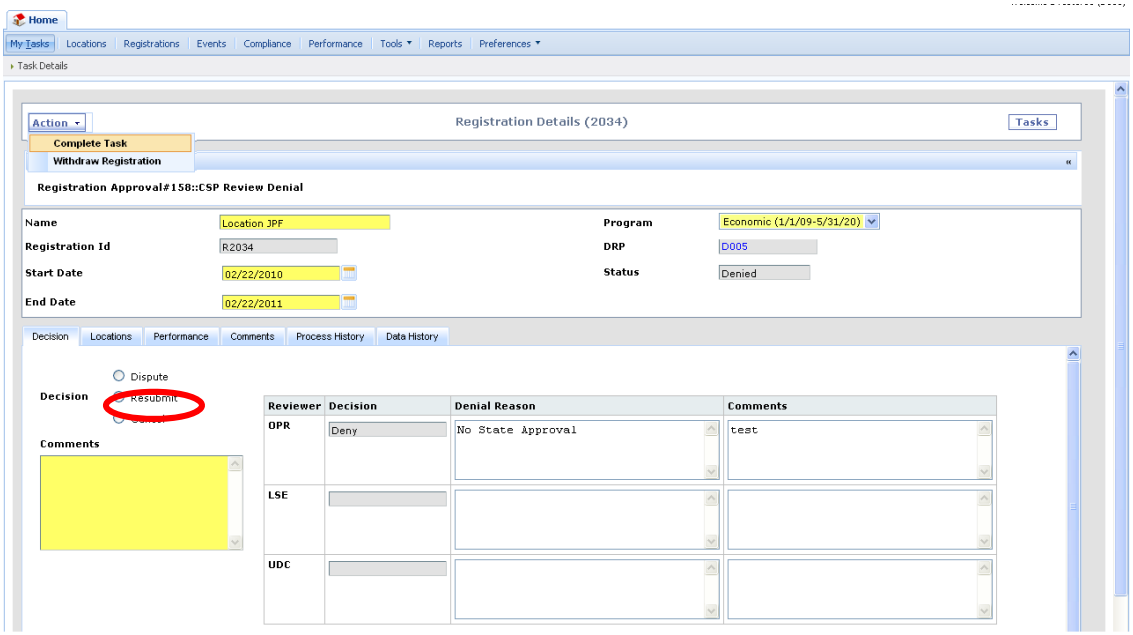

When completed, the User must click on **Action >> Complete Task.**

The Registration will then be sent to the LSE, UDC, and CAISO for review.

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Meter Data Submission

Preparing Meter Data

The User must submit all meter data in **XML** format.

The XML format details are listed on “Technical Interface Specification for DRS Exchange Services” located on www.caiso.com. Listed below is a table of the XML file schema for submitting the load information to the DRS.

Element	Data Description	Req'd	Type
MessageHeader			
/TimeDate	The dateTime, in GMT, when the payload is published.	Yes	dateTime
/Source	The source of published data. The value for this payload is CAISO.	No	string
MessagePayload/MeterDataContainer/RegisteredGenerator			
/mrid	Resource id for the PDR	Yes	string
/MeterData/Registration/mrid	Registration id for given PDR	Yes	string
/MeterData/Measurement/Unit	Unit Of Measure for meter data. Valid values for initial DRS release are: KWH	Yes	string
/MeterData/Measurement/MeasurementType	Measurement type for meter data. Valid values for initial DRS release are: GEN, LOAD.	Yes	string
/MeterData/Measurement/IntervalLength	Interval length for meter data. Valid values for initial DRS release are: 5, 60	Yes	int
/MeterData/Measurement/MeasurementValue/intervalEndTime	Interval end time time	Yes	dateTime
/MeterData/Measurement/MeasurementValue/meterValue	Meter value	Yes	double

Example 5: Below is a PDR Meter Data in XML format example.

In the XML file the user must identify the **Resource ID**.

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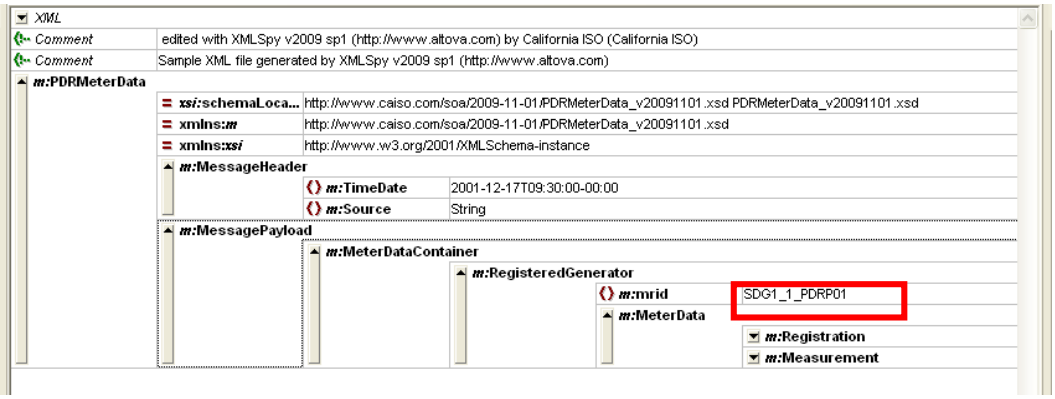

The User must also identify the Registration Number. In this example this file is for Registration R2052. The XML file must **omit** the R, and **only** show 2052.

All meter data must be submitted on **KWH**.

The measurement field should be set to **LOAD**.

The Interval Length should be set to 60 if the registration is **only** in the **Day Ahead (DA)** market. If the registration is in the **Real Time (RT)** market, or provided **Ancillary Service (AS)** they must submit **5 minute interval data** and the Interval length should be set to 5.

All meter data must be submitted in **GMT.**

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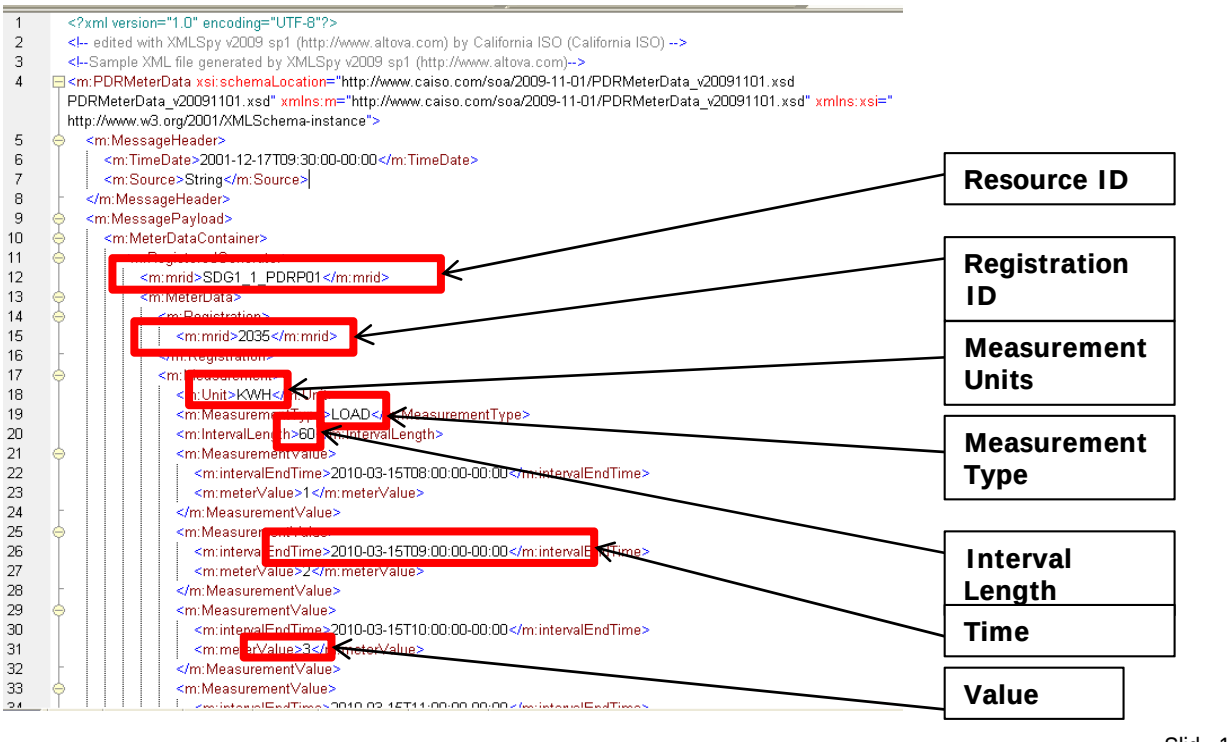

A Test XML file for meter Data submission is available below.

- **PDR Hourly Meter Data Submission Sample File for PDT**
- PDR Hourly Meter Data submission sample file for PST

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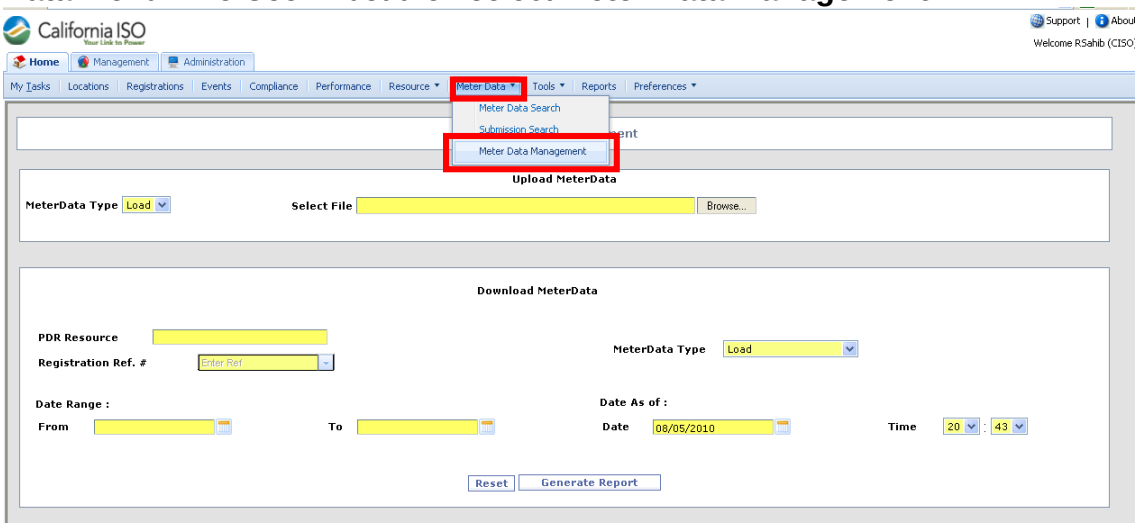
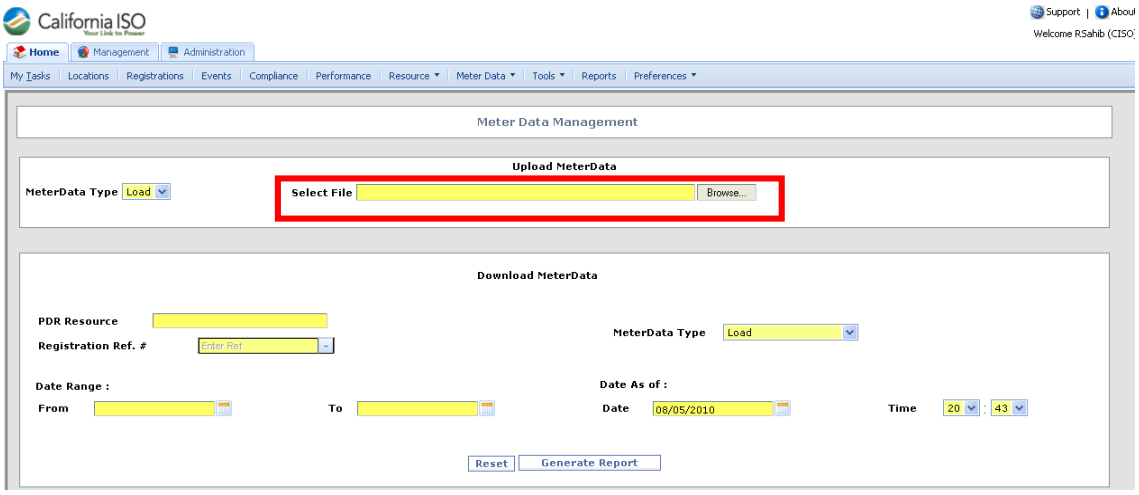
Submitting Meter Data

To submit Meter Data the User will need to log into the DRS and click on the **Meter Data** menu. The User must then select **Meter Data Management**.



The User must then select **Load** from the **MeterData** Type drop down box.



To upload your meter data press the **Browse** button, a file selection menu will pop up which will allow the User to navigate to the file they wish to download.

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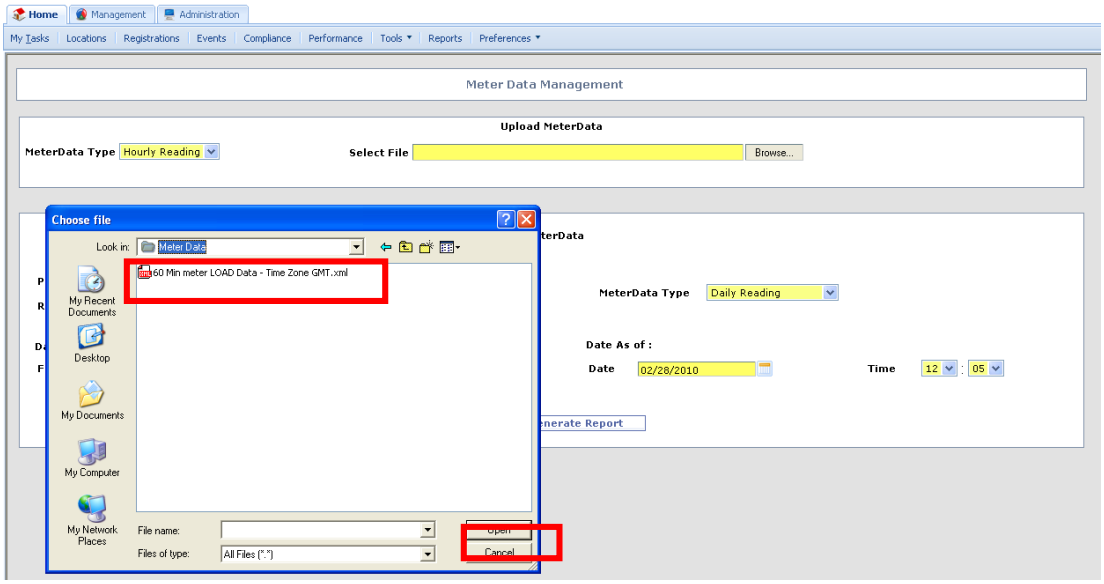

The User must select the file the wish to upload, and then click the **Open** button.

The file will automatically upload; it will take between 1 to 5 minutes based on the user's connection speed.

When upload is complete, the DRS will open a pop up window that will allow the User view the meter data they submitted.

60 Minute interval examples

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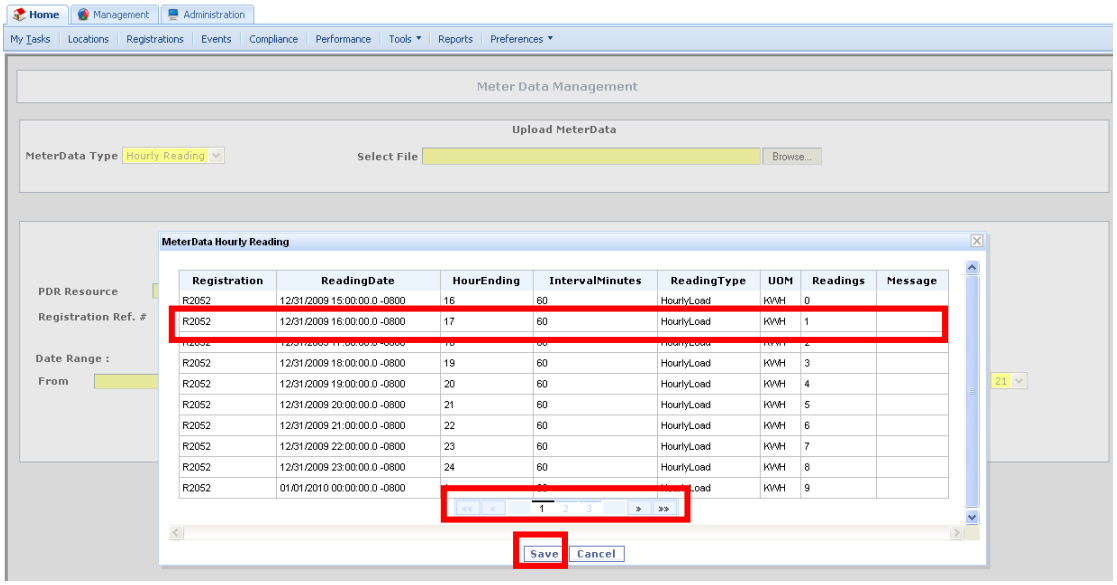
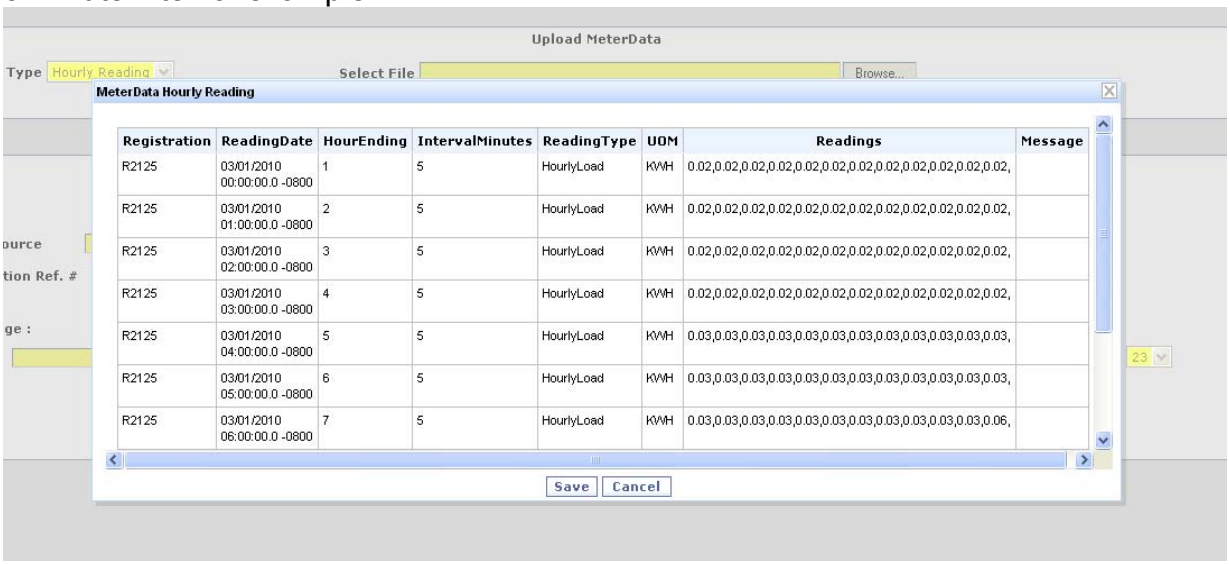


5 Minute interval example



Comma separated value, for 12 intervals in each HE

The pop up window will display:

Registration – The Registration ID of the meter the User is submitting the meter data for. For example this meter data is for R2052

ReadingDate – The interval start time of the meter data. For example, the boxed row, the meter data reading began at 12/31/2009 16:00:00

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HourEnding – The Hour Ending interval for the data set. For example the boxed row, the meter data is for interval 17

IntervalMinutes – Identifies the length of each interval. In this example all intervals are 60 minutes.

ReadingType – Identifies the Reading Type. In this example the data is hourly.

UOM – Identifies the engineering units for each interval. In this example the units are KWH.

Reading – Total generation for the interval. In the boxed example, the total generation is 1 KWH

Message – List any messages for each interval.

To move through the different pages click on the » button to move to the next page, or « to move back to a previous page.

To move to the first or last page of the submission, click »» or «« buttons. The User can also select on the individual numbers 1 2 3 to navigate through their meter data.

If everything is accurate the User can click on the **Save** button. If the User finder errors, or may have accidently submitted to wrong file, the User can click on the **Cancel** button.

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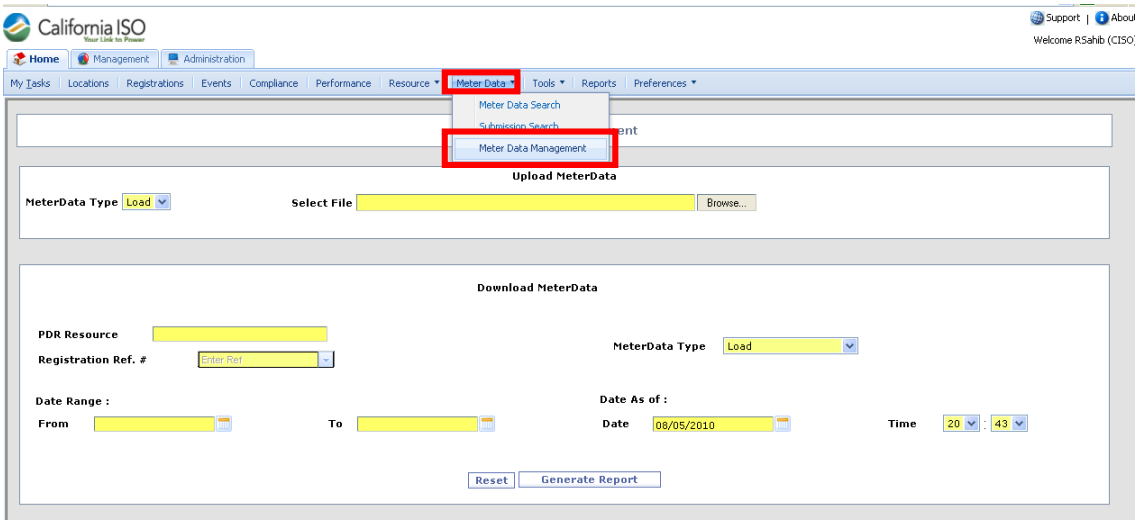
Downloading Meter Data

To retrieve Meter Data the User will need to log into the DRS and click on the **Meter Data** menu. The User must then select **Meter Data Management**.



The fields that need to be filled out to download meter data are:

PDR Resource – The resource ID you wish to download the data, for example SDG1_1_PDR01

Registration Ref. # - The registration number of the Registration, for example R1001

Date Range – The date range the User wish to view meter data for.
- **From –** Start date to view meter data
- **To –** End date to view meter data

MeterData Type- Determine meter data type.
- **Load** – See meter data summarized for each hour or 5 minutes based on what was submitted.
- **Generation Reduction** –Download the reduction calculation
- **Generation Baseline**- Download the baseline calculation

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Date As of- Used for Meter data version, the date in which the meter data was submitted. The meter data file that will be retrieved is effective as of the date and time entered.

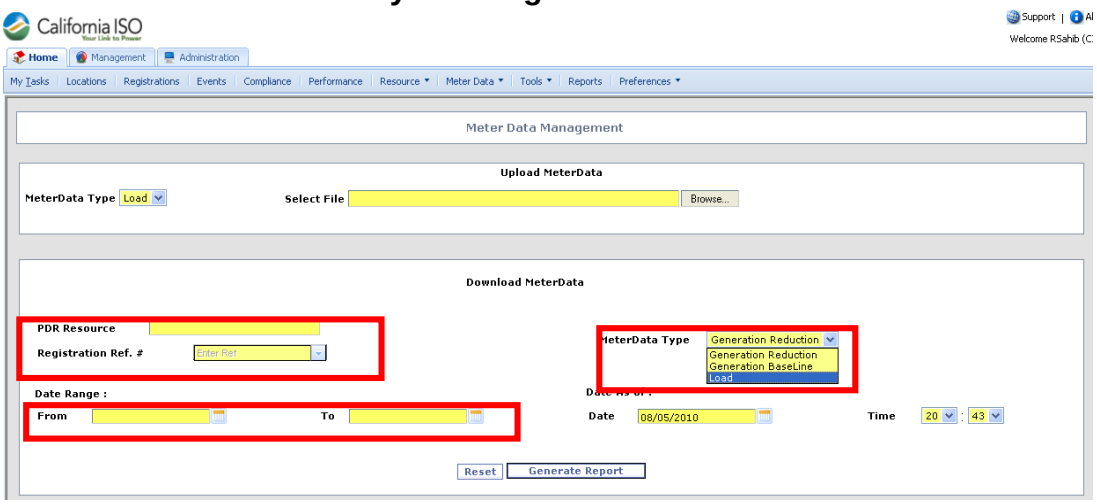
Date – Date in which meter data was submitted.

Time – Time in which meter data file was submitted

The User must list the **Registration Ref #** they wish to view.

The User must list the **Date Range** they wish to view the data for, and the **MeterData Type**.

The User must select **Hourly Reading**.



When complete the User must click on the **Generate Report** button.

A **File Download** pop up will appear giving the User the option to **Open**, **Save**, or **Cancel**.

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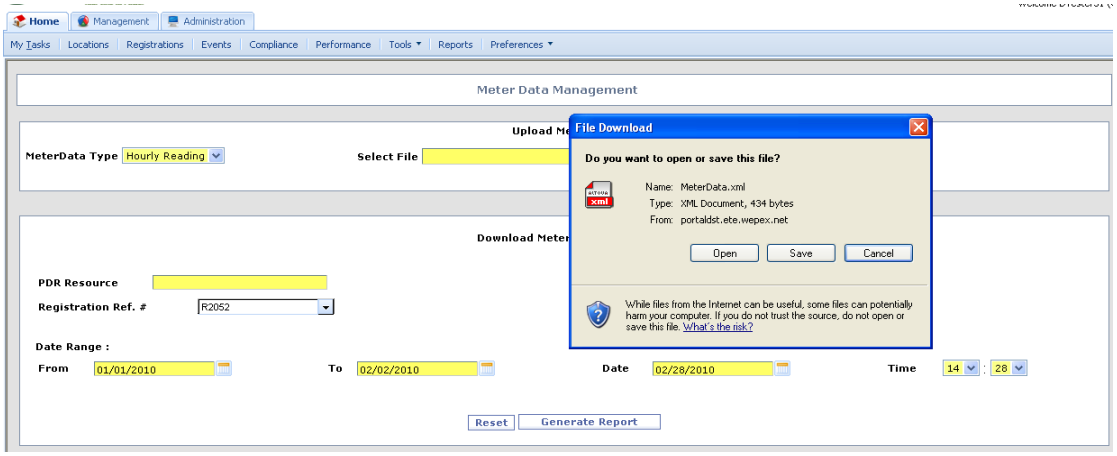

The output file will be an XML file, and can be viewed using Excel.

ns1:TimeDate	ns1:Source	ns1:mrid	ns1:mrid2	ns1:Unit	ns1:MeasurementType	ns1:IntervalLength	ns1:intervalEndTime	ns1:meterValue
2010-02-28T02:28:48Z-0800	String	SDG1_1_PDRP01	2052	KWH	LOAD	60	2010-01-01T01:00:00Z	9
2010-02-28T02:28:48Z-0800	String	SDG1_1_PDRP01	2052	KWH	LOAD	60	2010-01-01T02:00:00Z	10
2010-02-28T02:28:48Z-0800	String	SDG1_1_PDRP01	2052	KWH	LOAD	60	2010-01-01T03:00:00Z	11
2010-02-28T02:28:48Z-0800	String	SDG1_1_PDRP01	2052	KWH	LOAD	60	2010-01-01T04:00:00Z	12
2010-02-28T02:28:48Z-0800	String	SDG1_1_PDRP01	2052	KWH	LOAD	60	2010-01-01T05:00:00Z	13
2010-02-28T02:28:48Z-0800	String	SDG1_1_PDRP01	2052	KWH	LOAD	60	2010-01-01T06:00:00Z	14
2010-02-28T02:28:48Z-0800	String	SDG1_1_PDRP01	2052	KWH	LOAD	60	2010-01-01T07:00:00Z	15
2010-02-28T02:28:48Z-0800	String	SDG1_1_PDRP01	2052	KWH	LOAD	60	2010-01-01T08:00:00Z	16

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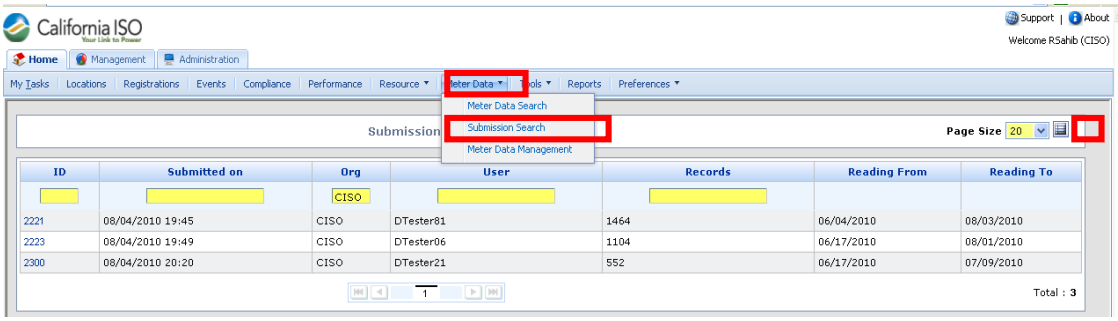
Meter Data Submission Search

The meter data submission screen tracks who, when, and what records were submitted to the DRS. To access the Meter Data Submission screen, users must click on the **Meter Data** Menu and select **Submission Search** from the dropdown menu.



The User will be able to view all the data submitted for their registrations. Users can download the search results by clicking on the download button located on the top right hand corner.

The Submission Search screen allows users to view:

ID- Submission ID of the meter data generated by the DRS

Submission on- To time the meter data was submitted to the DRS

Org- The organization that submitted the meter data to the DRS

User- The user that submitted the meter data to the DRS

Records- The number of records or intervals submitted to the DRS

Reading From- The start date of the meter data submitted to the DRS

Reading To- The End date of the meter data submitted to the DRS

User will be able to filter by any of the above fields except Reading From and Reading To.

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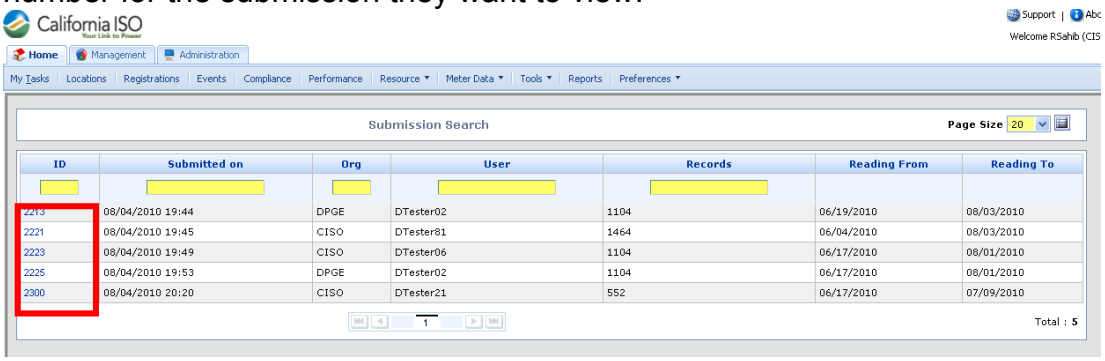
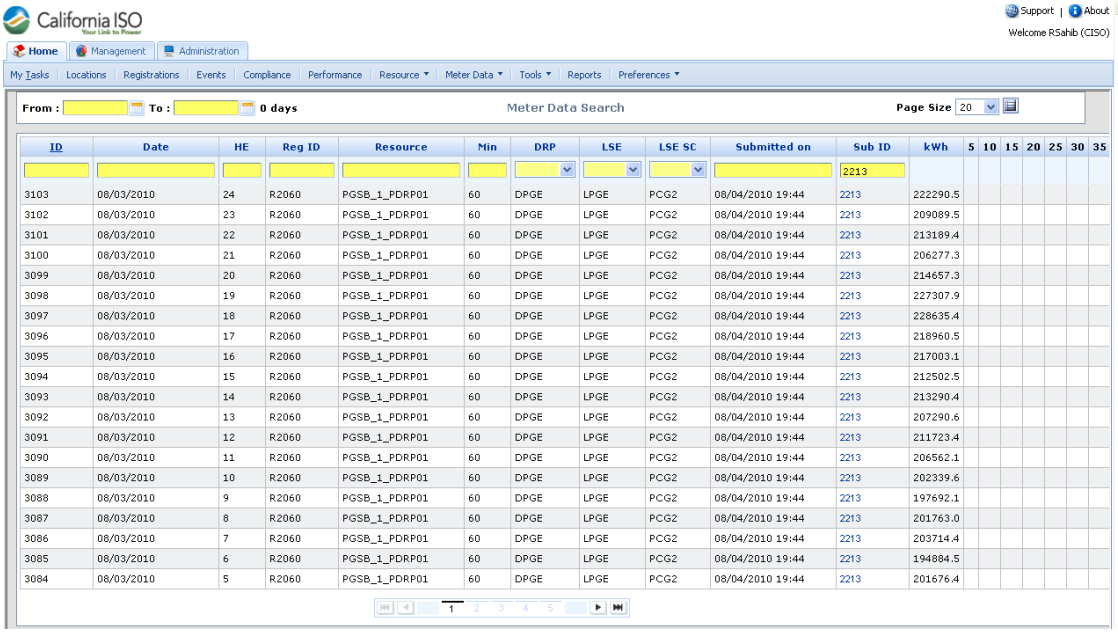
To get details on the meter data that was submitted, users can click the submission ID number for the submission they want to view.


California ISO
Support | Abc
Welcome RSahib (CIS
Home
Management
Administration
My Tasks | Locations | Registrations | Events | Compliance | Performance | Resource | Meter Data | Tools | Reports | Preferences
Submission Search
Page Size 20
ID | Submitted on | Org | User | Records | Reading From | Reading To
2213 | 08/04/2010 19:44 | DPGE | DTester02 | 1104 | 06/19/2010 | 08/03/2010
2221 | 08/04/2010 19:45 | CISO | DTester81 | 1464 | 06/04/2010 | 08/03/2010
2223 | 08/04/2010 19:49 | CISO | DTester06 | 1104 | 06/17/2010 | 08/01/2010
2225 | 08/04/2010 19:53 | DPGE | DTester02 | 1104 | 06/17/2010 | 08/01/2010
2300 | 08/04/2010 20:20 | CISO | DTester21 | 552 | 06/17/2010 | 07/09/2010
Total : 5

This will take the user to the Meter Data Search screen, and it will be auto filtered by the submission ID.



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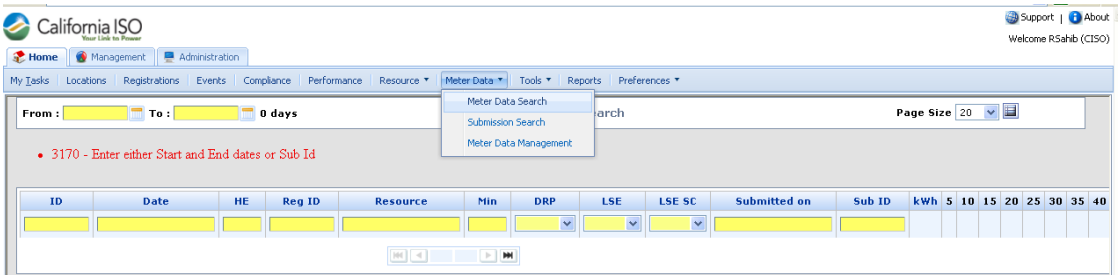
Meter Data Search

The Meter Data Search screen lists all the meter data submitted by a user. To access the screen the user must click on the **Meter Data** menu and select **Meter Data Search**



The screen will be blank and the user will have to define a Start and End Date, or a Submission ID to populate the screen. The meter data Screen lists:

ID- The meter data ID given for each hour, each hour will have a different meter data ID, regardless of if the meter data was submitted in a single batch file.

Date- The start date of the meter data

HE- Hour Ending Interval

Reg ID- The registration ID associated with the meter data

Resource- The resource ID associated with the meter data

Min- The granularity of meter data, if it is submitted in 60 minutes of 5 minute intervals

DRP- the DRP associated with the meter data

LSE- the LSE associated with the meter data

LSE SC- the LSE scheduling coordinator associated with the meter data

Sub ID- the submission ID associated with the meter data

kWh- the total kilowatts per hour associated with each hour

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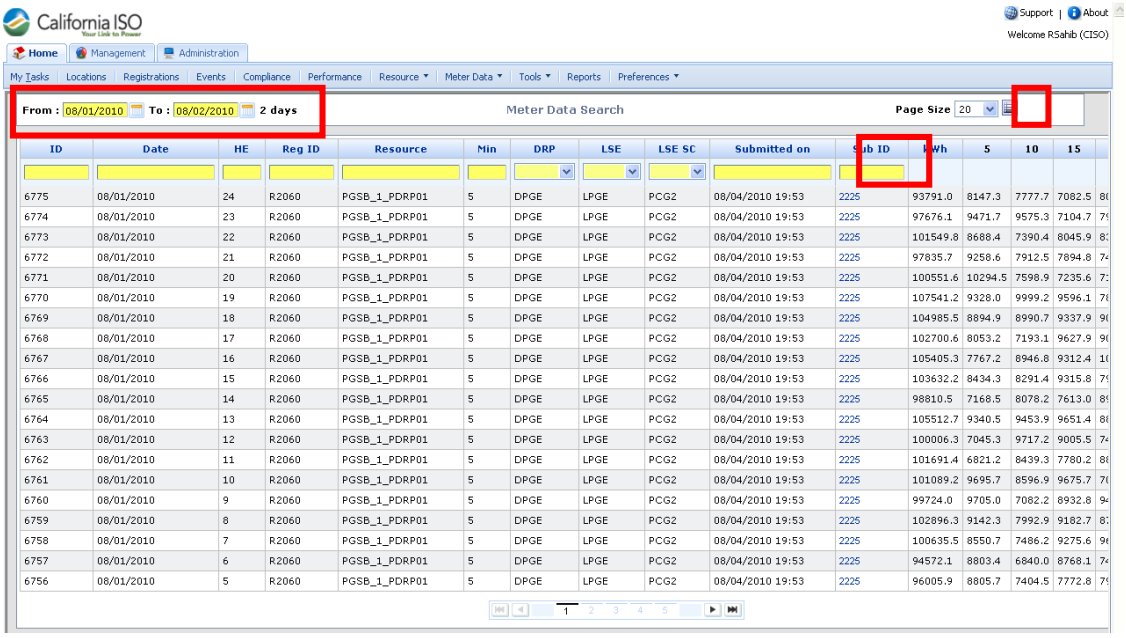
5…00 – if the users submits 5 minute meter data, it will be stored in these 12 fields based off of interval ending times.

Users will be able to filter off any of the above fields except for kWh and 5…00.

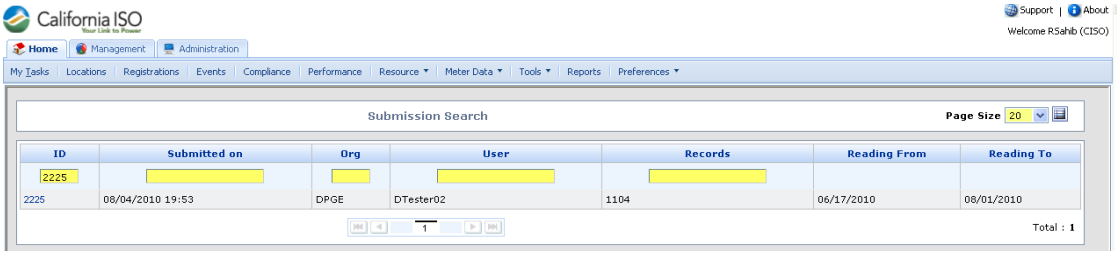
To get started, users must either select to **From** and **To** dates they want to view the meter data, located on the top left corner of the screen, or the meter data submission ID which will be entered in the **Sub ID** field.


California ISO
Support | About
Welcome RSahib (CISO)
Home
Management
Administration
My Tasks | Locations | Registrations | Events | Compliance | Performance | Resource | Meter Data | Tools | Reports | Preferences
From : 08/01/2010 To : 08/02/2010 2 days
Meter Data Search
Page Size 20

ID	Date	HE	Reg ID	Resource	Min	DRP	LSE	LSE SC	Submitted on	Sub ID	kWh	5	10	15
6775	08/01/2010	24	R2060	PGSB_1_PDRP01	5	DPGE	LPGE	PCG2	08/04/2010 19:53	2225	93791.0	8147.3	7777.7	7082.5
6774	08/01/2010	23	R2060	PGSB_1_PDRP01	5	DPGE	LPGE	PCG2	08/04/2010 19:53	2225	97676.1	9471.7	9575.3	7104.7
6773	08/01/2010	22	R2060	PGSB_1_PDRP01	5	DPGE	LPGE	PCG2	08/04/2010 19:53	2225	101549.8	8688.4	7390.4	8045.9
6772	08/01/2010	21	R2060	PGSB_1_PDRP01	5	DPGE	LPGE	PCG2	08/04/2010 19:53	2225	97835.7	9258.6	7912.5	7894.8
6771	08/01/2010	20	R2060	PGSB_1_PDRP01	5	DPGE	LPGE	PCG2	08/04/2010 19:53	2225	100551.6	10294.5	7598.9	7235.6
6770	08/01/2010	19	R2060	PGSB_1_PDRP01	5	DPGE	LPGE	PCG2	08/04/2010 19:53	2225	107541.2	9328.0	9999.2	9596.1
6769	08/01/2010	18	R2060	PGSB_1_PDRP01	5	DPGE	LPGE	PCG2	08/04/2010 19:53	2225	104985.5	8894.9	8990.7	9337.9
6768	08/01/2010	17	R2060	PGSB_1_PDRP01	5	DPGE	LPGE	PCG2	08/04/2010 19:53	2225	102700.6	8053.2	7193.1	9627.9
6767	08/01/2010	16	R2060	PGSB_1_PDRP01	5	DPGE	LPGE	PCG2	08/04/2010 19:53	2225	105405.3	7767.2	8946.8	9312.4
6766	08/01/2010	15	R2060	PGSB_1_PDRP01	5	DPGE	LPGE	PCG2	08/04/2010 19:53	2225	103632.2	8434.3	8291.4	9315.8
6765	08/01/2010	14	R2060	PGSB_1_PDRP01	5	DPGE	LPGE	PCG2	08/04/2010 19:53	2225	98810.5	7168.5	8078.2	7613.0
6764	08/01/2010	13	R2060	PGSB_1_PDRP01	5	DPGE	LPGE	PCG2	08/04/2010 19:53	2225	105512.7	9340.5	9453.9	9651.4
6763	08/01/2010	12	R2060	PGSB_1_PDRP01	5	DPGE	LPGE	PCG2	08/04/2010 19:53	2225	100006.3	7045.3	9717.2	9005.5
6762	08/01/2010	11	R2060	PGSB_1_PDRP01	5	DPGE	LPGE	PCG2	08/04/2010 19:53	2225	101691.4	6821.2	8439.3	7780.2
6761	08/01/2010	10	R2060	PGSB_1_PDRP01	5	DPGE	LPGE	PCG2	08/04/2010 19:53	2225	101089.2	9695.7	8596.9	9675.7
6760	08/01/2010	9	R2060	PGSB_1_PDRP01	5	DPGE	LPGE	PCG2	08/04/2010 19:53	2225	99724.0	9705.0	7082.2	8932.8
6759	08/01/2010	8	R2060	PGSB_1_PDRP01	5	DPGE	LPGE	PCG2	08/04/2010 19:53	2225	102896.3	9142.3	7992.9	9182.7
6758	08/01/2010	7	R2060	PGSB_1_PDRP01	5	DPGE	LPGE	PCG2	08/04/2010 19:53	2225	100635.5	8550.7	7486.2	9275.6
6757	08/01/2010	6	R2060	PGSB_1_PDRP01	5	DPGE	LPGE	PCG2	08/04/2010 19:53	2225	94572.1	8803.4	6840.0	8768.1
6756	08/01/2010	5	R2060	PGSB_1_PDRP01	5	DPGE	LPGE	PCG2	08/04/2010 19:53	2225	96005.9	8805.7	7404.5	7772.8

Users can the download the data by clicking on the download button on the top right corner of the screen.

User can get more details on submission information of a particular set of meter data be click on the submission ID located under the **Sub ID** column.


California ISO
Support | About
Welcome RSahib (CISO)
Home
Management
Administration
My Tasks | Locations | Registrations | Events | Compliance | Performance | Resource | Meter Data | Tools | Reports | Preferences
Submission Search
Page Size 20

ID	Submitted on	Org	User	Records	Reading From	Reading To
2225						
2225	08/04/2010 19:53	DPGE	DTester02	1104	06/17/2010	08/01/2010

Total : 1

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Common Errors

3404 – Uploaded file should contain 29 columns

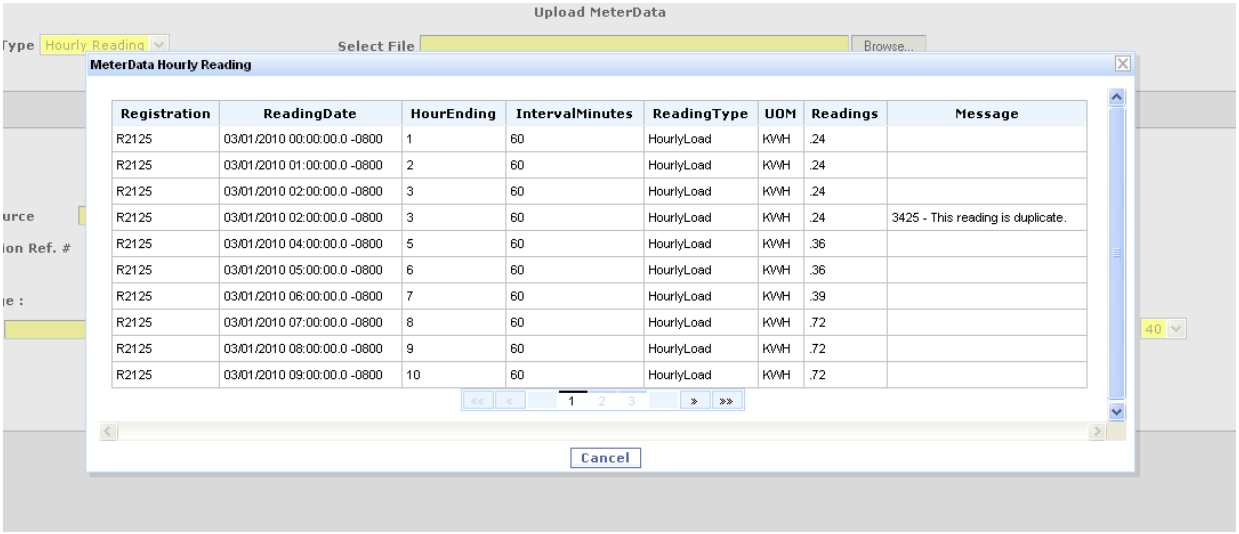
The User did not upload and XML format file, or did not configure the file correctly. The User should review their file and submit.

3432 – Start Date for Meter Data is required. Please select a value

The User did not select a Date range.

3438 – Registration not found

The User did not select a Registration ID, or failed to select an existing Registration ID. This also includes expired registrations.



Registration	ReadingDate	HourEnding	IntervalMinutes	ReadingType	UOM	Readings	Message
R2125	03/01/2010 00:00:00.0 -0800	1	60	HourlyLoad	KWH	.24	
R2125	03/01/2010 01:00:00.0 -0800	2	60	HourlyLoad	KWH	.24	
R2125	03/01/2010 02:00:00.0 -0800	3	60	HourlyLoad	KWH	.24	
R2125	03/01/2010 02:00:00.0 -0800	3	60	HourlyLoad	KWH	.24	3425 - This reading is duplicate.
R2125	03/01/2010 04:00:00.0 -0800	5	60	HourlyLoad	KWH	.36	
R2125	03/01/2010 05:00:00.0 -0800	6	60	HourlyLoad	KWH	.36	
R2125	03/01/2010 06:00:00.0 -0800	7	60	HourlyLoad	KWH	.39	
R2125	03/01/2010 07:00:00.0 -0800	8	60	HourlyLoad	KWH	.72	
R2125	03/01/2010 08:00:00.0 -0800	9	60	HourlyLoad	KWH	.72	
R2125	03/01/2010 09:00:00.0 -0800	10	60	HourlyLoad	KWH	.72	

Error Example: If you do not properly submit meter data an error message will appear in the message column. It will indicate the reason the interval failed to process. The User will not have to option to save the meter data. In this example the User submitted a duplicate interval.

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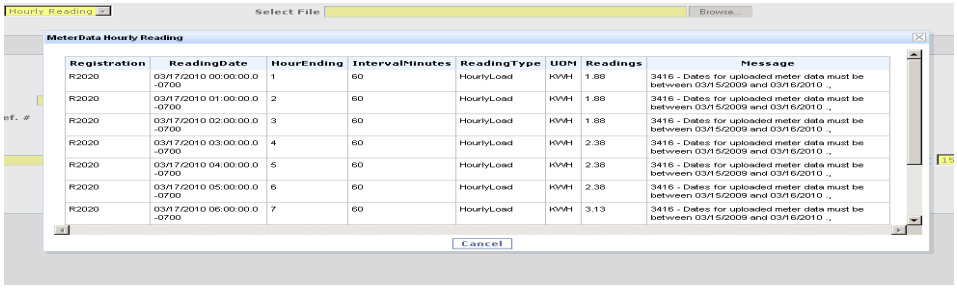
Hourly Reading
Select File
Browse...
MeterData Hourly Reading
Registration | ReadingDate | HourEnding | IntervalMinutes | ReadingType | UOM | Readings | Message
R2020 | 03/17/2010 00:00:00.0 -0700 | 1 | 60 | HourlyLoad | KWH | 1.88 | 3416 - Dates for uploaded meter data must be between 03/15/2009 and 03/16/2010 .,
R2020 | 03/17/2010 01:00:00.0 -0700 | 2 | 60 | HourlyLoad | KWH | 1.88 | 3416 - Dates for uploaded meter data must be between 03/15/2009 and 03/16/2010 .,
R2020 | 03/17/2010 02:00:00.0 -0700 | 3 | 60 | HourlyLoad | KWH | 1.88 | 3416 - Dates for uploaded meter data must be between 03/15/2009 and 03/16/2010 .,
R2020 | 03/17/2010 03:00:00.0 -0700 | 4 | 60 | HourlyLoad | KWH | 2.38 | 3416 - Dates for uploaded meter data must be between 03/15/2009 and 03/16/2010 .,
R2020 | 03/17/2010 04:00:00.0 -0700 | 5 | 60 | HourlyLoad | KWH | 2.38 | 3416 - Dates for uploaded meter data must be between 03/15/2009 and 03/16/2010 .,
R2020 | 03/17/2010 05:00:00.0 -0700 | 6 | 60 | HourlyLoad | KWH | 2.38 | 3416 - Dates for uploaded meter data must be between 03/15/2009 and 03/16/2010 .,
R2020 | 03/17/2010 06:00:00.0 -0700 | 7 | 60 | HourlyLoad | KWH | 3.13 | 3416 - Dates for uploaded meter data must be between 03/15/2009 and 03/16/2010 .,
Cancel

Submitting for Expired Registration, the User will receive a notice in the Message column stating the registration has expired.

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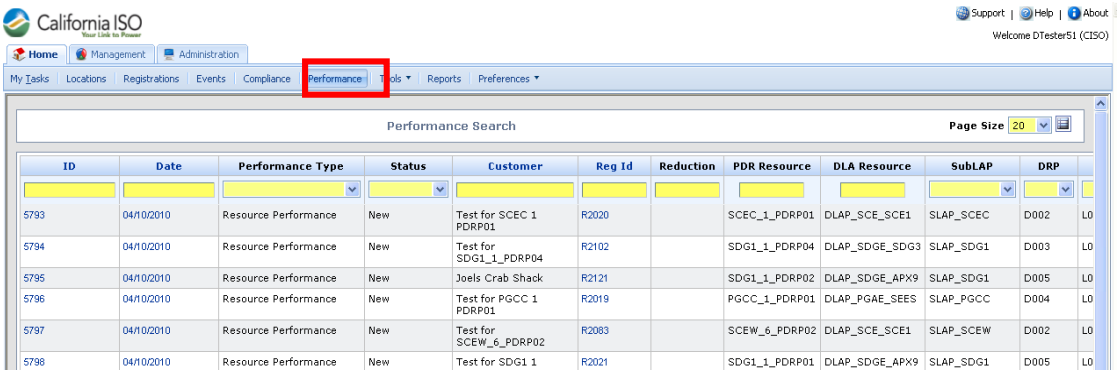
Performance

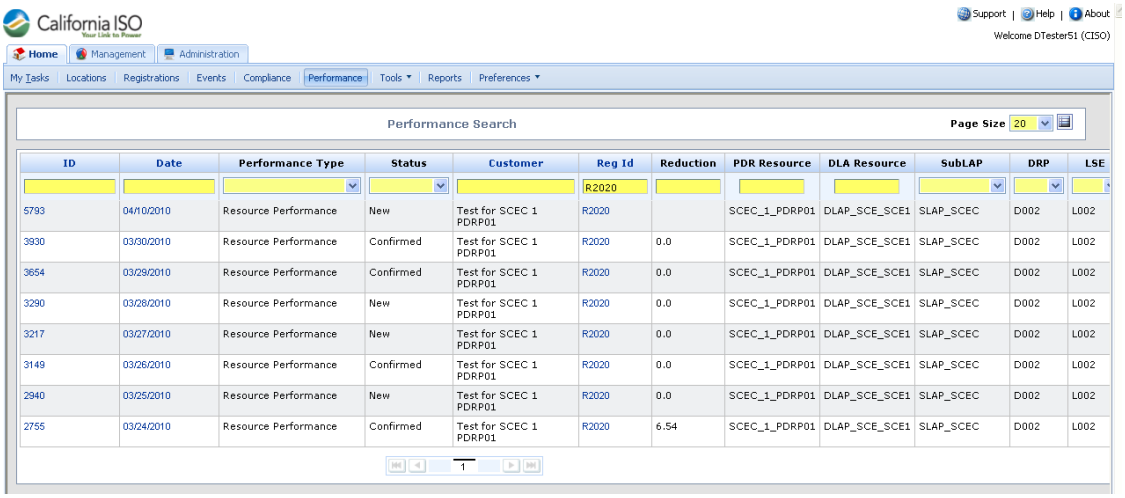
Searching for a Performance

To view a particular CBL and access the **Performance Search** screen the user must click on the **Performance** button.



ID	Date	Performance Type	Status	Customer	Reg Id	Reduction	PDR Resource	DLA Resource	SubLAP	DRP	
5793	04/10/2010	Resource Performance	New	Test for SCEC 1 PDRP01	R2020		SCEC_1_PDRP01	DLAP_SCE_SCE1	SLAP_SCEC	D002	L0
5794	04/10/2010	Resource Performance	New	Test for SDG1_1_PDRP04	R2102		SDG1_1_PDRP04	DLAP_SDGE_SDG3	SLAP_SDG1	D003	L0
5795	04/10/2010	Resource Performance	New	Joels Crab Shack	R2121		SDG1_1_PDRP02	DLAP_SDGE_APX9	SLAP_SDG1	D005	L0
5796	04/10/2010	Resource Performance	New	Test for PGCC 1 PDRP01	R2019		PGCC_1_PDRP01	DLAP_PGAE_SEES	SLAP_PGCC	D004	L0
5797	04/10/2010	Resource Performance	New	Test for SCEW_6_PDRP02	R2083		SCEW_6_PDRP02	DLAP_SCE_SCE1	SLAP_SCEW	D002	L0
5798	04/10/2010	Resource Performance	New	Test for SDG1 1	R2021		SDG1_1_PDRP01	DLAP_SDGE_APX9	SLAP_SDG1	D005	L0

The User can search for their registration by typing their registration ID in the **Reg Id** field.



ID	Date	Performance Type	Status	Customer	Reg Id	Reduction	PDR Resource	DLA Resource	SubLAP	DRP	LSE
					R2020						
5793	04/10/2010	Resource Performance	New	Test for SCEC 1 PDRP01	R2020		SCEC_1_PDRP01	DLAP_SCE_SCE1	SLAP_SCEC	D002	L002
3930	03/30/2010	Resource Performance	Confirmed	Test for SCEC 1 PDRP01	R2020	0.0	SCEC_1_PDRP01	DLAP_SCE_SCE1	SLAP_SCEC	D002	L002
3654	03/29/2010	Resource Performance	Confirmed	Test for SCEC 1 PDRP01	R2020	0.0	SCEC_1_PDRP01	DLAP_SCE_SCE1	SLAP_SCEC	D002	L002
3290	03/28/2010	Resource Performance	New	Test for SCEC 1 PDRP01	R2020	0.0	SCEC_1_PDRP01	DLAP_SCE_SCE1	SLAP_SCEC	D002	L002
3217	03/27/2010	Resource Performance	New	Test for SCEC 1 PDRP01	R2020	0.0	SCEC_1_PDRP01	DLAP_SCE_SCE1	SLAP_SCEC	D002	L002
3149	03/26/2010	Resource Performance	Confirmed	Test for SCEC 1 PDRP01	R2020	0.0	SCEC_1_PDRP01	DLAP_SCE_SCE1	SLAP_SCEC	D002	L002
2940	03/25/2010	Resource Performance	New	Test for SCEC 1 PDRP01	R2020	0.0	SCEC_1_PDRP01	DLAP_SCE_SCE1	SLAP_SCEC	D002	L002
2755	03/24/2010	Resource Performance	Confirmed	Test for SCEC 1 PDRP01	R2020	6.54	SCEC_1_PDRP01	DLAP_SCE_SCE1	SLAP_SCEC	D002	L002

The result will show the resources different resource performance by ID and date.

Users can also download the data by click on the download button located on the top right corner of the screen.

To access the **Performance Detail** screen the User must click on the ID or the Date of the performance.

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Performance Detail Screen

The **Performance Detail** Screen List the:

DRP- the DRP ID

Registration ID- the Registration ID hyper link which like back to the Registration Detail screen.

Status-the status of the performance
- **Confirmed**- performance has been calculated
- **New**- performance has not been calculated

LSE- the LSE ID associated to the registration

Customer- the Name of the registration

Performance ID- the ID for this Performance

UDC- the UDC ID

Event Date- the date this performance was run

PDR Resource- the PDR Resource ID for this registration

The **Detail** Tab shows the meter data and the performance for the resource for the listed day. In this example, the event day is 3/30/2010 for the registration SCEC_1_PDRP01.

The **Detail** Tab shows:

HE – Hour Ending

Market- the market the resource is participating in
- **DA**-day ahead market
- **RTM**-Real time market

Load-the Resource's load for that hour in Kilowatt hours

Baseline- the baseline for that hour in Kilowatt hours

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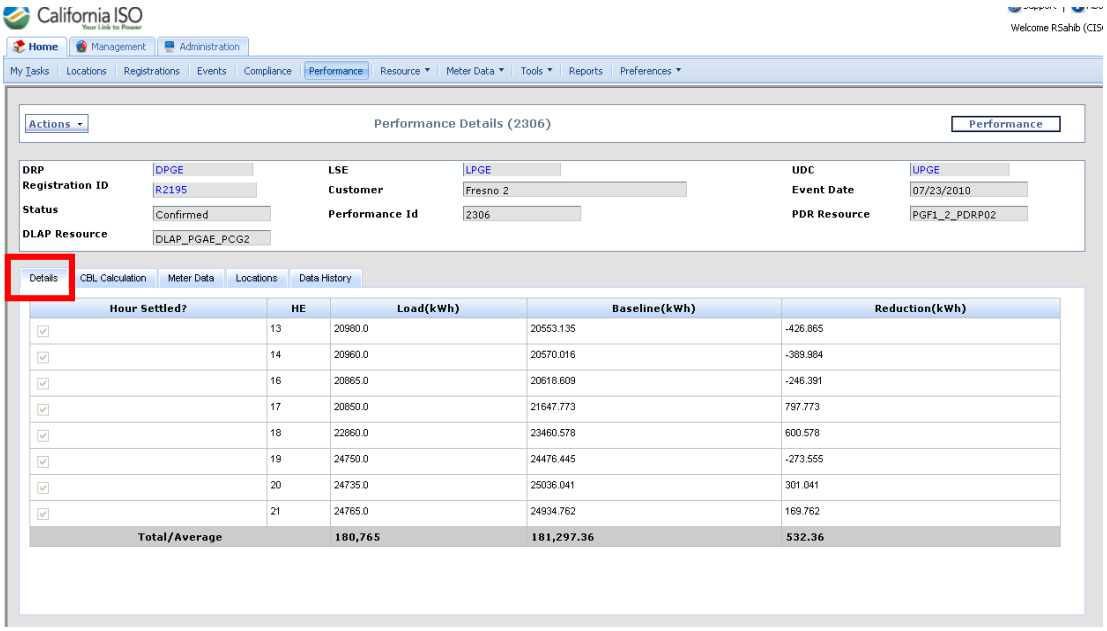
Gen Qty- The generation quantity in Kilowatt hours, if the resource was dispatched the generation quantity would show a positive number.



Calculating CBL

This function is only available to users with administration access.

To access the CBL data, the User much click on the **Baseline** Tab.

CBL Method-identifies baseline method

Status-Status of baseline calculation

Valid As of-identifies when baseline was calculated

The Table identifies:

Hour-The Hour the base line is calculated for

Calculated Baseline- The baseline for the hour in kWh

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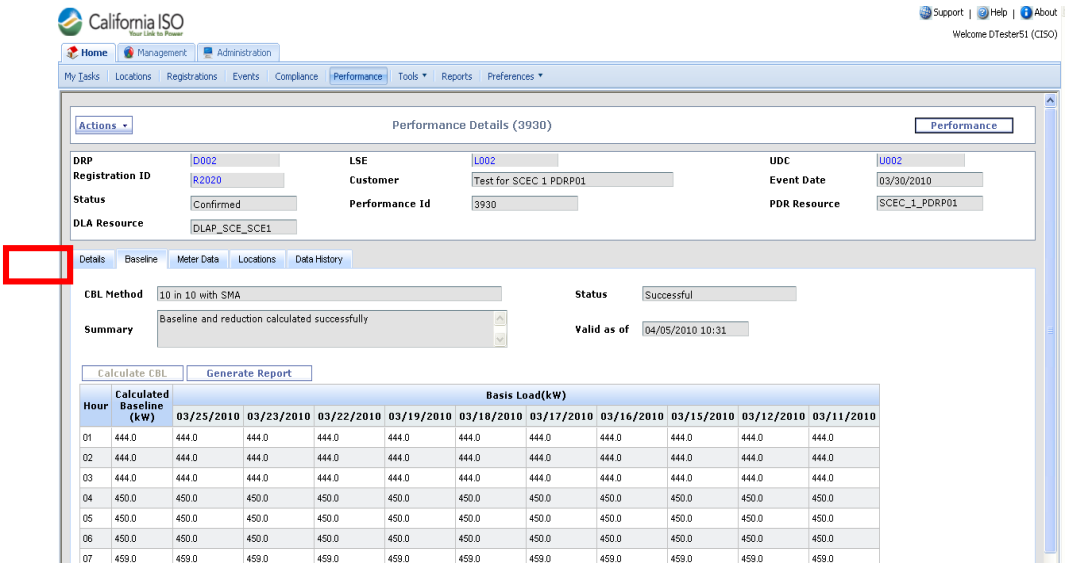
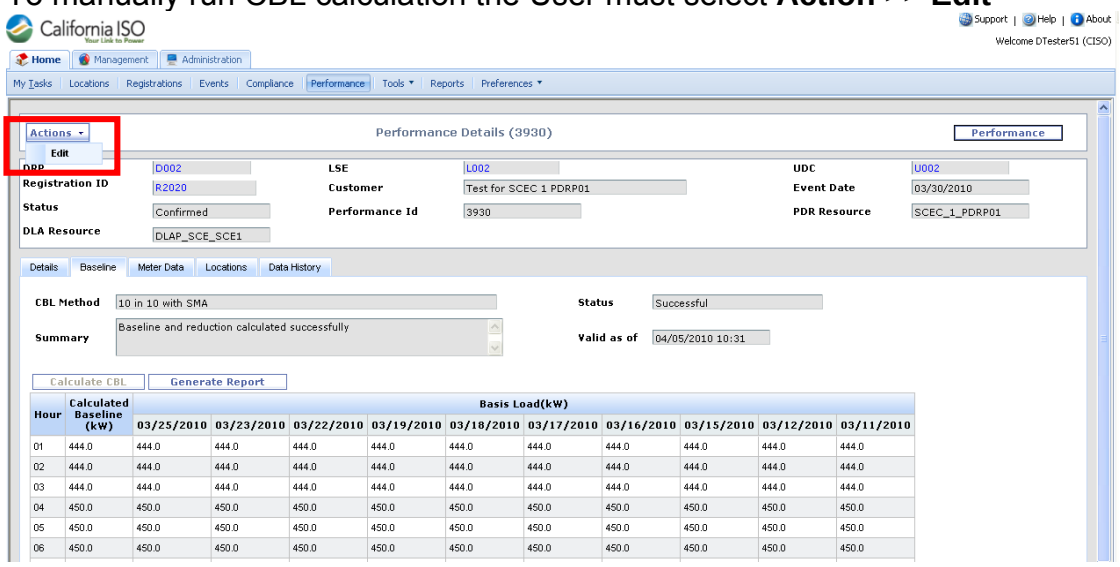
Information in this document is subject to change.

Base Load – The load data used to calculate the base line and which dates and meter data quality the system used.



To manually run CBL calculation the User must select **Action** >> **Edit**



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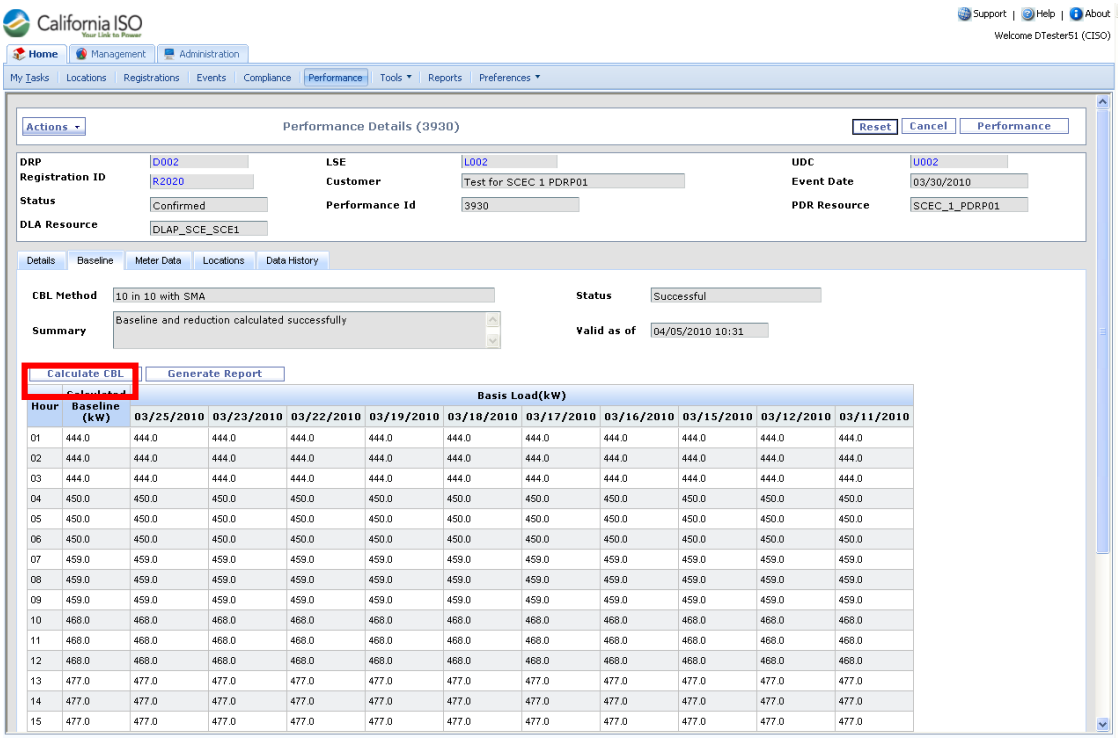
Information in this document is subject to change.

The User will notice that the **Calculate CBL** button is now enabled. To run the CBL calculation the User must click on the **Calculate CBL** button.



Downloading CBL

To download the CBL the User must click on the **Generate Report** button.

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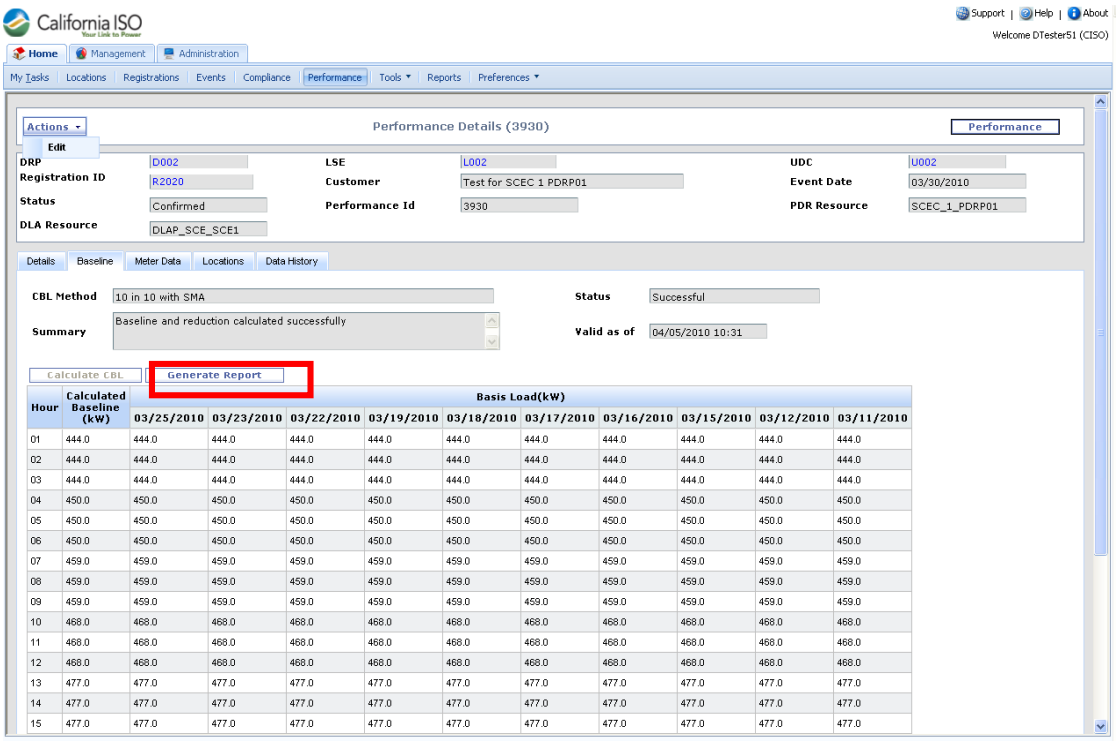
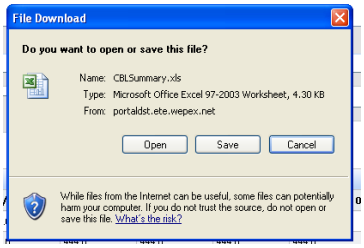


A pop up window will appear indication if the User which to:

Open- opens the CBL summary without saving it.

Save- will let the User identify the locations they wish to save the file

Cancel- Closing the window without saving or opening the file.


File Download
Do you want to open or save this file?
Name: CBLSummary.xls
Type: Microsoft Office Excel 97-2003 Worksheet, 4.30 KB
From: portaldst.ete.wepex.net
Open
Save
Cancel
While files from the Internet can be useful, some files can potentially harm your computer. If you do not trust the source, do not open or save this file. What's the risk?

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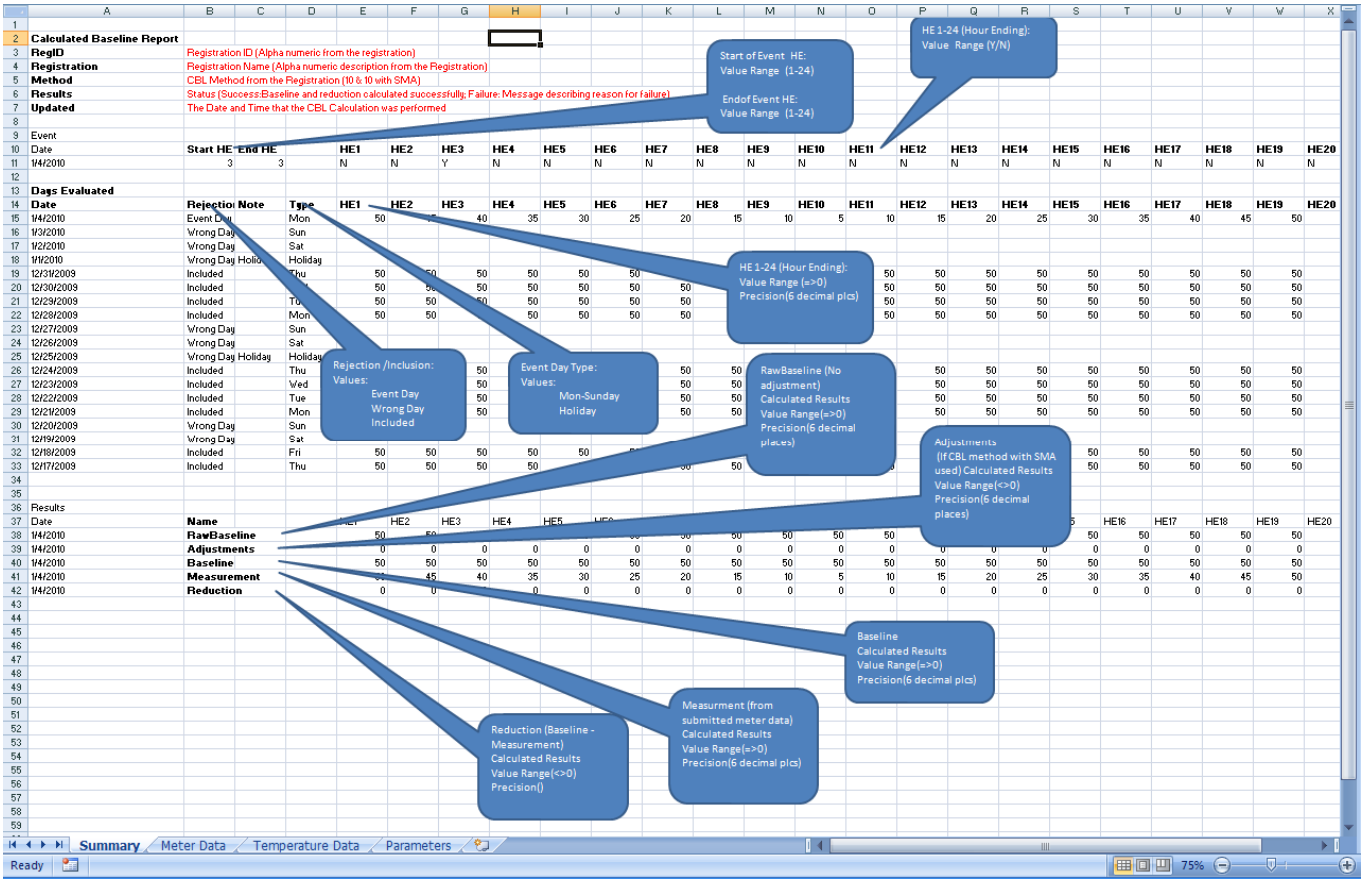
CBL Summary File

The Excel file should look similar to the screen shots below



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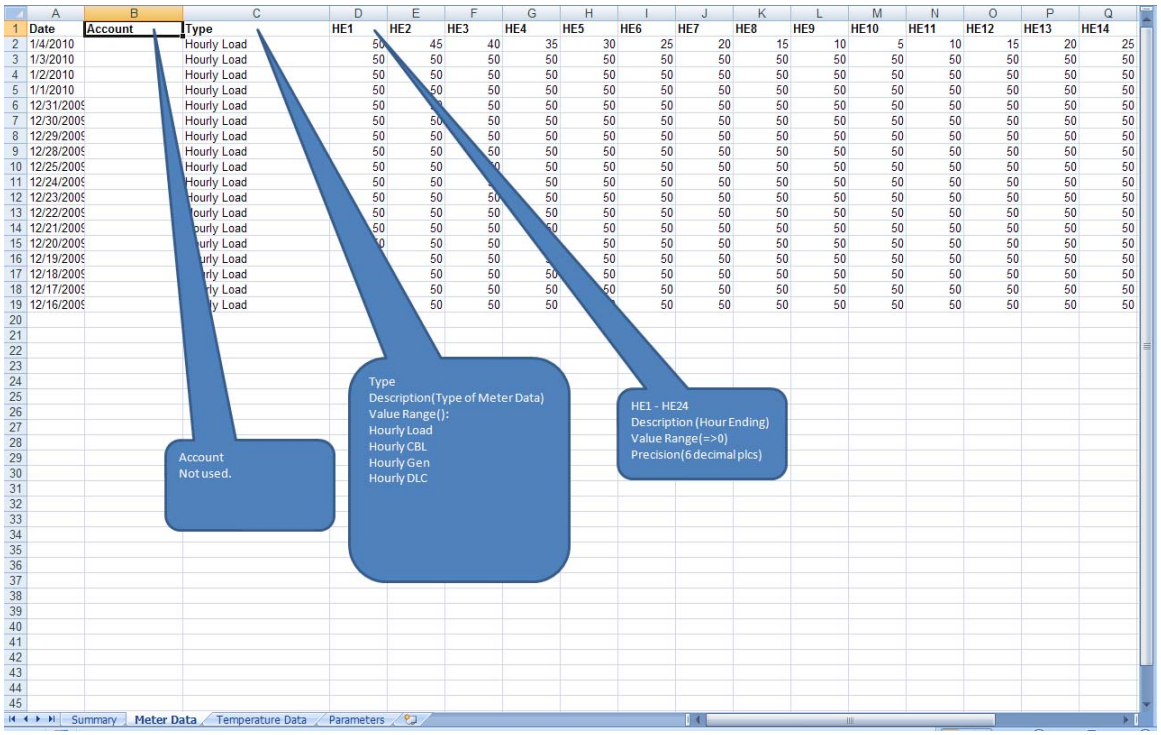

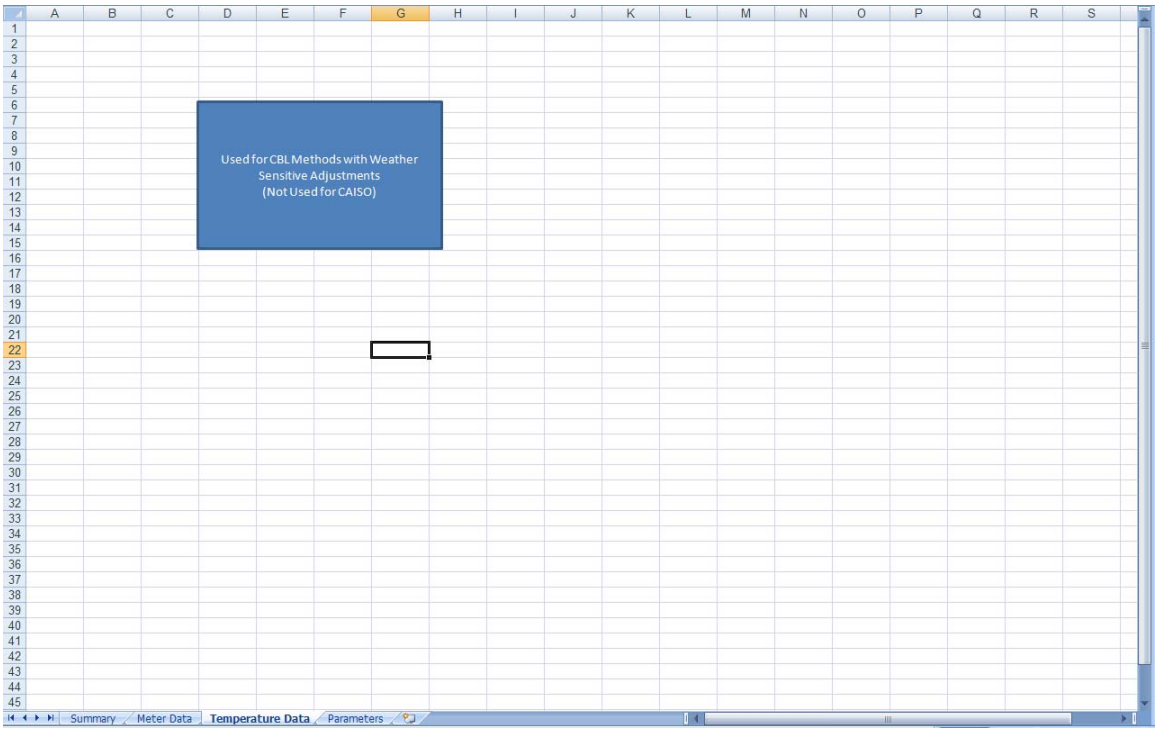

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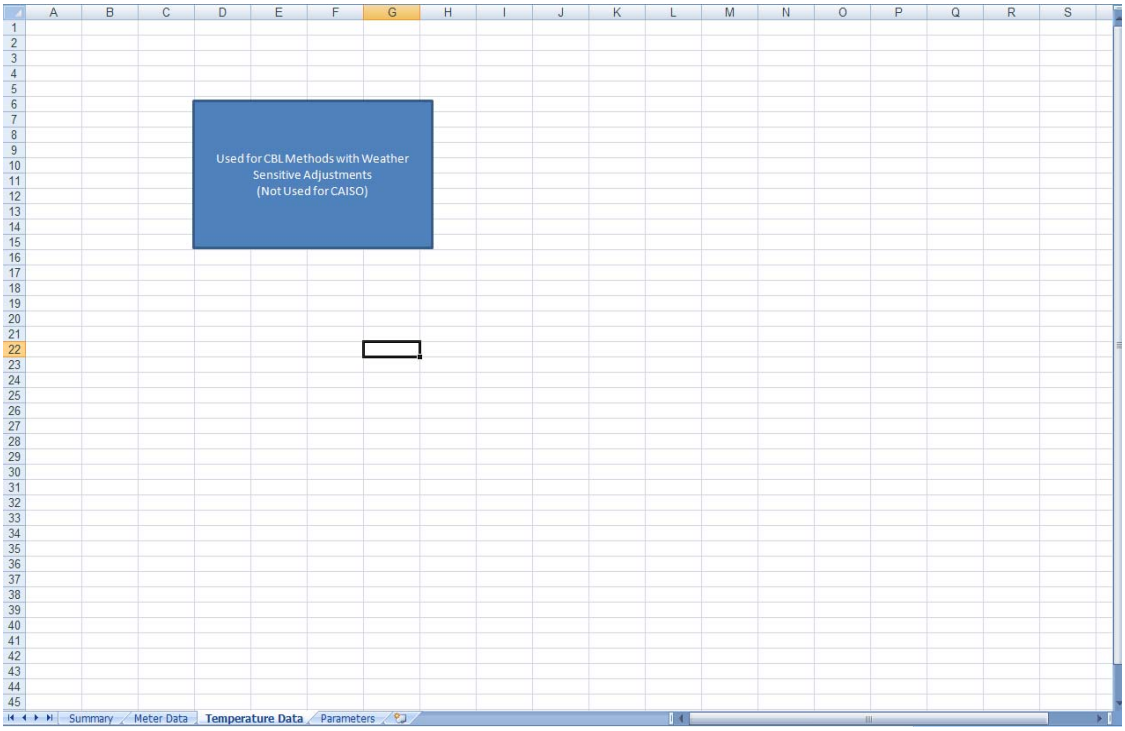
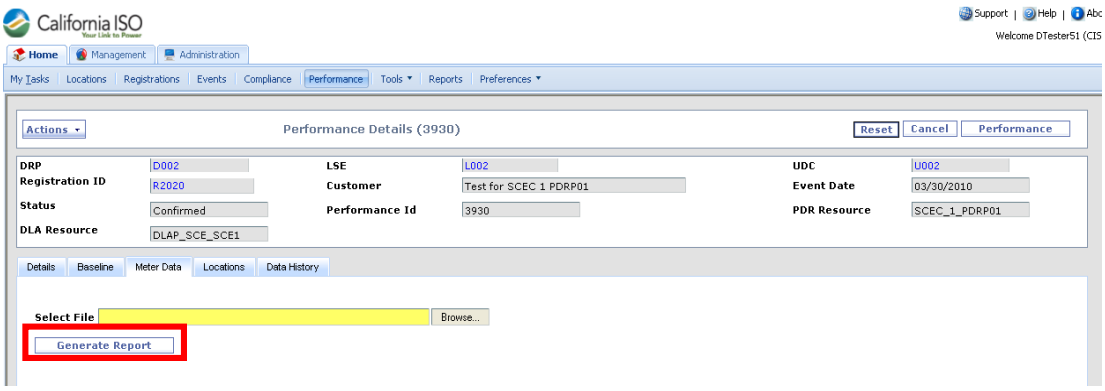


Meter Data Download

The User can download the Meter data used in the CBL calculation by clicking on the **Meter Data** button.



To retrieve the meter data click on the **Generate Report** button.

A pop up window will appear indication if the User which to:
Open- opens the CBL summary without saving it.

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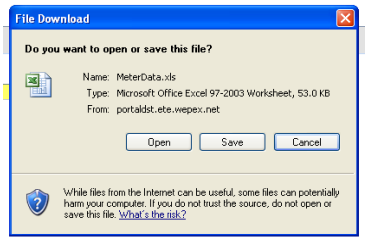
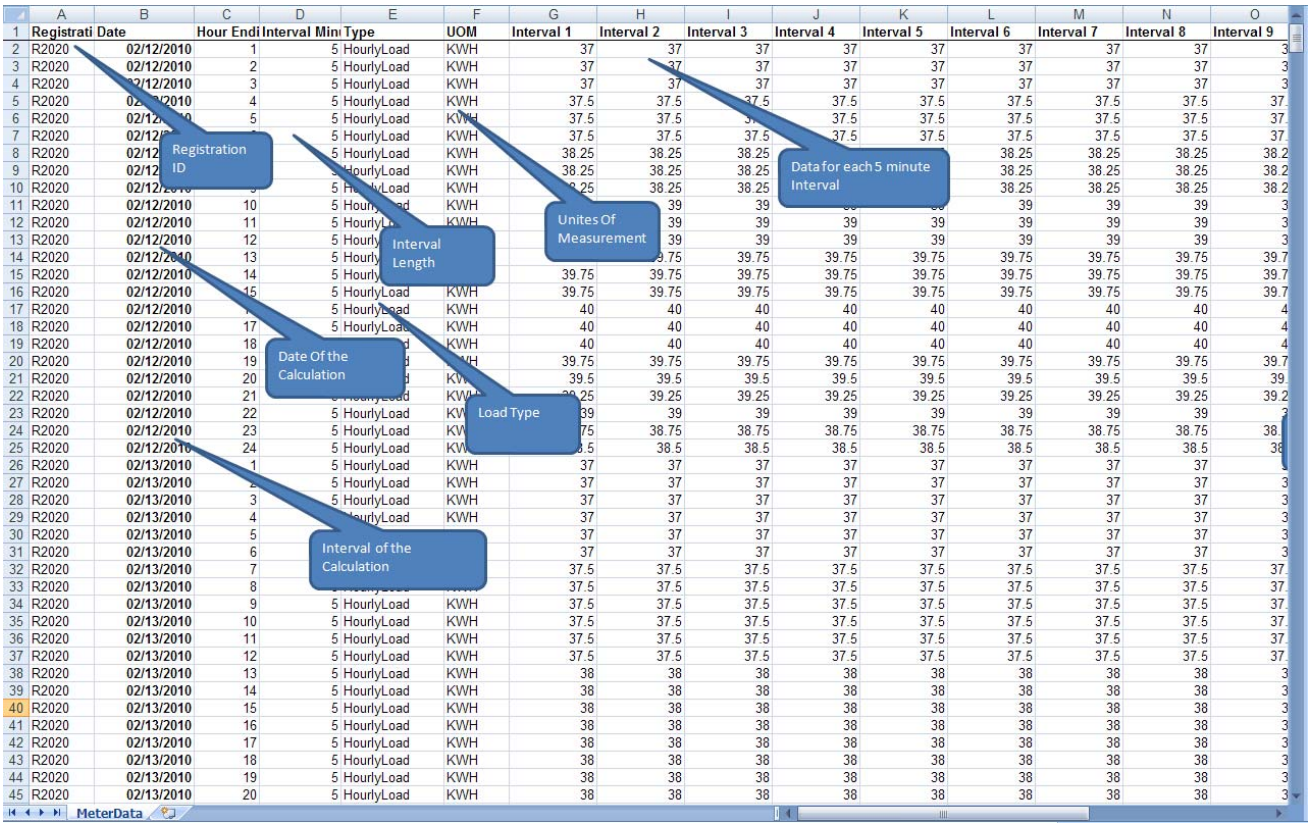
Save- will let the User identify the locations they wish to save the file

Cancel- Closing the window without saving or opening the file.


File Download
Do you want to open or save this file?
Name: MeterData.xls
Type: Microsoft Office Excel 97-2003 Worksheet, 53.0 KB
From: portaldst.ete.wepex.net
Open
Save
Cancel
While files from the Internet can be useful, some files can potentially harm your computer. If you do not trust the source, do not open or save this file. What's the risk?

The Excel Spreadsheet should look similar to the one below:



	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
1	Registrati	Date	Hour Endi	Interval Min	Type	UOM	Interval 1	Interval 2	Interval 3	Interval 4	Interval 5	Interval 6	Interval 7	Interval 8	Interval 9
2	R2020	02/12/2010	1	5	HourlyLoad	KWH	37	37	37	37	37	37	37	37	3
3	R2020	02/12/2010	2	5	HourlyLoad	KWH	37	37	37	37	37	37	37	37	3
4	R2020	02/12/2010	3	5	HourlyLoad	KWH	37	37	37	37	37	37	37	37	3
5	R2020	02/12/2010	4	5	HourlyLoad	KWH	37.5	37.5	37.5	37.5	37.5	37.5	37.5	37.5	37
6	R2020	02/12/2010	5	5	HourlyLoad	KWH	37.5	37.5	37.5	37.5	37.5	37.5	37.5	37.5	37
7	R2020	02/12/2010	6	5	HourlyLoad	KWH	37.5	37.5	37.5	37.5	37.5	37.5	37.5	37.5	37
8	R2020	02/12/2010	7	5	HourlyLoad	KWH	38.25	38.25	38.25	38.25	38.25	38.25	38.25	38.25	38.2
9	R2020	02/12/2010	8	5	HourlyLoad	KWH	38.25	38.25	38.25	38.25	38.25	38.25	38.25	38.25	38.2
10	R2020	02/12/2010	9	5	HourlyLoad	KWH	38.25	38.25	38.25	38.25	38.25	38.25	38.25	38.25	38.2
11	R2020	02/12/2010	10	5	HourlyLoad	KWH	39	39	39	39	39	39	39	39	3
12	R2020	02/12/2010	11	5	HourlyLoad	KWH	39	39	39	39	39	39	39	39	3
13	R2020	02/12/2010	12	5	HourlyLoad	KWH	39	39	39	39	39	39	39	39	3
14	R2020	02/12/2010	13	5	HourlyLoad	KWH	39.75	39.75	39.75	39.75	39.75	39.75	39.75	39.75	39.7
15	R2020	02/12/2010	14	5	HourlyLoad	KWH	39.75	39.75	39.75	39.75	39.75	39.75	39.75	39.75	39.7
16	R2020	02/12/2010	15	5	HourlyLoad	KWH	39.75	39.75	39.75	39.75	39.75	39.75	39.75	39.75	39.7
17	R2020	02/12/2010	16	5	HourlyLoad	KWH	40	40	40	40	40	40	40	40	4
18	R2020	02/12/2010	17	5	HourlyLoad	KWH	40	40	40	40	40	40	40	40	4
19	R2020	02/12/2010	18	5	HourlyLoad	KWH	40	40	40	40	40	40	40	40	4
20	R2020	02/12/2010	19	5	HourlyLoad	KWH	39.75	39.75	39.75	39.75	39.75	39.75	39.75	39.75	39.7
21	R2020	02/12/2010	20	5	HourlyLoad	KWH	39.5	39.5	39.5	39.5	39.5	39.5	39.5	39.5	39
22	R2020	02/12/2010	21	5	HourlyLoad	KWH	39.25	39.25	39.25	39.25	39.25	39.25	39.25	39.25	39.2
23	R2020	02/12/2010	22	5	HourlyLoad	KWH	39	39	39	39	39	39	39	39	3
24	R2020	02/12/2010	23	5	HourlyLoad	KWH	38.75	38.75	38.75	38.75	38.75	38.75	38.75	38.75	38.
25	R2020	02/12/2010	24	5	HourlyLoad	KWH	38.5	38.5	38.5	38.5	38.5	38.5	38.5	38.5	38
26	R2020	02/13/2010	1	5	HourlyLoad	KWH	37	37	37	37	37	37	37	37	3
27	R2020	02/13/2010	2	5	HourlyLoad	KWH	37	37	37	37	37	37	37	37	3
28	R2020	02/13/2010	3	5	HourlyLoad	KWH	37	37	37	37	37	37	37	37	3
29	R2020	02/13/2010	4	5	HourlyLoad	KWH	37	37	37	37	37	37	37	37	3
30	R2020	02/13/2010	5	5	HourlyLoad	KWH	37	37	37	37	37	37	37	37	3
31	R2020	02/13/2010	6	5	HourlyLoad	KWH	37	37	37	37	37	37	37	37	3
32	R2020	02/13/2010	7	5	HourlyLoad	KWH	37.5	37.5	37.5	37.5	37.5	37.5	37.5	37.5	37
33	R2020	02/13/2010	8	5	HourlyLoad	KWH	37.5	37.5	37.5	37.5	37.5	37.5	37.5	37.5	37
34	R2020	02/13/2010	9	5	HourlyLoad	KWH	37.5	37.5	37.5	37.5	37.5	37.5	37.5	37.5	37
35	R2020	02/13/2010	10	5	HourlyLoad	KWH	37.5	37.5	37.5	37.5	37.5	37.5	37.5	37.5	37
36	R2020	02/13/2010	11	5	HourlyLoad	KWH	37.5	37.5	37.5	37.5	37.5	37.5	37.5	37.5	37
37	R2020	02/13/2010	12	5	HourlyLoad	KWH	37.5	37.5	37.5	37.5	37.5	37.5	37.5	37.5	37
38	R2020	02/13/2010	13	5	HourlyLoad	KWH	38	38	38	38	38	38	38	38	3
39	R2020	02/13/2010	14	5	HourlyLoad	KWH	38	38	38	38	38	38	38	38	3
40	R2020	02/13/2010	15	5	HourlyLoad	KWH	38	38	38	38	38	38	38	38	3
41	R2020	02/13/2010	16	5	HourlyLoad	KWH	38	38	38	38	38	38	38	38	3
42	R2020	02/13/2010	17	5	HourlyLoad	KWH	38	38	38	38	38	38	38	38	3
43	R2020	02/13/2010	18	5	HourlyLoad	KWH	38	38	38	38	38	38	38	38	3
44	R2020	02/13/2010	19	5	HourlyLoad	KWH	38	38	38	38	38	38	38	38	3
45	R2020	02/13/2010	20	5	HourlyLoad	KWH	38	38	38	38	38	38	38	38	3

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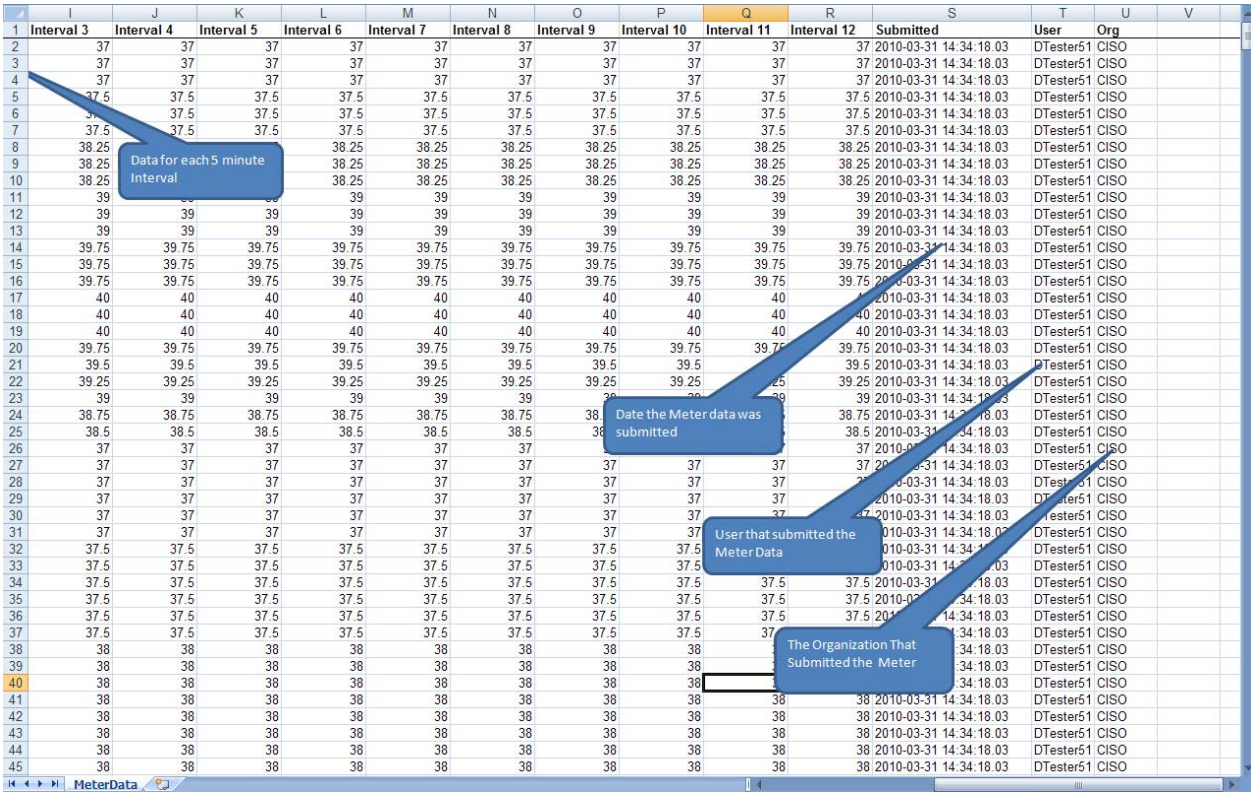

Interval 3	Interval 4	Interval 5	Interval 6	Interval 7	Interval 8	Interval 9	Interval 10	Interval 11	Interval 12	Submitted	User	Org
37	37	37	37	37	37	37	37	37	37	2010-03-31 14:34:18.03	DTester51	CISO
37	37	37	37	37	37	37	37	37	37	2010-03-31 14:34:18.03	DTester51	CISO
37	37	37	37	37	37	37	37	37	37	2010-03-31 14:34:18.03	DTester51	CISO
37.5	37.5	37.5	37.5	37.5	37.5	37.5	37.5	37.5	37.5	2010-03-31 14:34:18.03	DTester51	CISO
37.5	37.5	37.5	37.5	37.5	37.5	37.5	37.5	37.5	37.5	2010-03-31 14:34:18.03	DTester51	CISO
37.5	37.5	37.5	37.5	37.5	37.5	37.5	37.5	37.5	37.5	2010-03-31 14:34:18.03	DTester51	CISO
38.25			38.25	38.25	38.25	38.25	38.25	38.25	38.25	2010-03-31 14:34:18.03	DTester51	CISO
38.25			38.25	38.25	38.25	38.25	38.25	38.25	38.25	2010-03-31 14:34:18.03	DTester51	CISO
38.25			38.25	38.25	38.25	38.25	38.25	38.25	38.25	2010-03-31 14:34:18.03	DTester51	CISO
39			39	39	39	39	39	39	39	2010-03-31 14:34:18.03	DTester51	CISO
39	39	39	39	39	39	39	39	39	39	2010-03-31 14:34:18.03	DTester51	CISO
39	39	39	39	39	39	39	39	39	39	2010-03-31 14:34:18.03	DTester51	CISO
39.75	39.75	39.75	39.75	39.75	39.75	39.75	39.75	39.75	39.75	2010-03-31 14:34:18.03	DTester51	CISO
39.75	39.75	39.75	39.75	39.75	39.75	39.75	39.75	39.75	39.75	2010-03-31 14:34:18.03	DTester51	CISO
39.75	39.75	39.75	39.75	39.75	39.75	39.75	39.75	39.75	39.75	2010-03-31 14:34:18.03	DTester51	CISO
40	40	40	40	40	40	40	40	40	40	2010-03-31 14:34:18.03	DTester51	CISO
40	40	40	40	40	40	40	40	40	40	2010-03-31 14:34:18.03	DTester51	CISO
40	40	40	40	40	40	40	40	40	40	2010-03-31 14:34:18.03	DTester51	CISO
39.75	39.75	39.75	39.75	39.75	39.75	39.75	39.75	39.75	39.75	2010-03-31 14:34:18.03	DTester51	CISO
39.5	39.5	39.5	39.5	39.5	39.5	39.5	39.5		39.5	2010-03-31 14:34:18.03	DTester51	CISO
39.25	39.25	39.25	39.25	39.25	39.25	39.25	39.25		39.25	2010-03-31 14:34:18.03	DTester51	CISO
39	39	39	39	39	39	39			39	2010-03-31 14:34:18.03	DTester51	CISO
38.75	38.75	38.75	38.75	38.75	38.75	38			38.75	2010-03-31 14:34:18.03	DTester51	CISO
38.5	38.5	38.5	38.5	38.5	38.5	38			38.5	2010-03-31 14:34:18.03	DTester51	CISO
37	37	37	37	37	37				37	2010-03-31 14:34:18.03	DTester51	CISO
37	37	37	37	37	37	37	37	37	37	2010-03-31 14:34:18.03	DTester51	CISO
37	37	37	37	37	37	37	37	37	37	2010-03-31 14:34:18.03	DTester51	CISO
37	37	37	37	37	37	37	37	37	37	2010-03-31 14:34:18.03	DTester51	CISO
37	37	37	37	37	37	37	37	37	37	2010-03-31 14:34:18.03	DTester51	CISO
37.5	37.5	37.5	37.5	37.5	37.5	37.5	37.5	37.5	37.5	2010-03-31 14:34:18.03	DTester51	CISO
37.5	37.5	37.5	37.5	37.5	37.5	37.5	37.5	37.5	37.5	2010-03-31 14:34:18.03	DTester51	CISO
37.5	37.5	37.5	37.5	37.5	37.5	37.5	37.5	37.5	37.5	2010-03-31 14:34:18.03	DTester51	CISO
37.5	37.5	37.5	37.5	37.5	37.5	37.5	37.5	37.5	37.5	2010-03-31 14:34:18.03	DTester51	CISO
37.5	37.5	37.5	37.5	37.5	37.5	37.5	37.5	37.5	37.5	2010-03-31 14:34:18.03	DTester51	CISO
38	38	38	38	38	38	38	38	38	38	2010-03-31 14:34:18.03	DTester51	CISO
38	38	38	38	38	38	38	38	38	38	2010-03-31 14:34:18.03	DTester51	CISO
38	38	38	38	38	38	38	38	38	38	2010-03-31 14:34:18.03	DTester51	CISO
38	38	38	38	38	38	38	38	38	38	2010-03-31 14:34:18.03	DTester51	CISO
38	38	38	38	38	38	38	38	38	38	2010-03-31 14:34:18.03	DTester51	CISO
38	38	38	38	38	38	38	38	38	38	2010-03-31 14:34:18.03	DTester51	CISO
38	38	38	38	38	38	38	38	38	38	2010-03-31 14:34:18.03	DTester51	CISO
38	38	38	38	38	38	38	38	38	38	2010-03-31 14:34:18.03	DTester51	CISO
38	38	38	38	38	38	38	38	38	38	2010-03-31 14:34:18.03	DTester51	CISO

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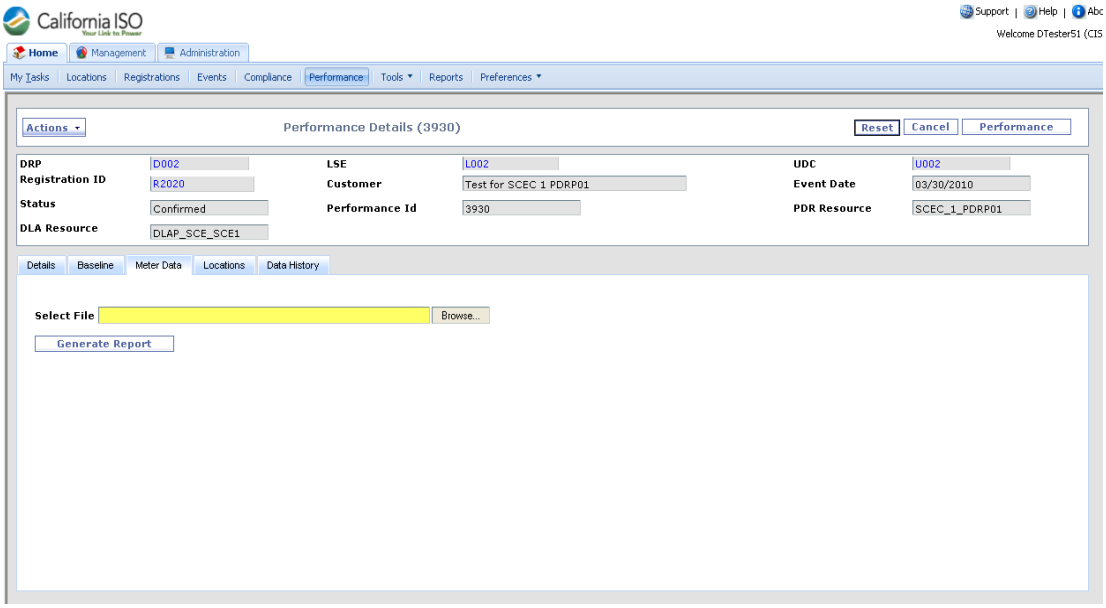
Meter Data Upload

The DRS does give the User the option to upload Meter data through the **Performance Detail** under the **Meter Data** tab

CAISO recommends using the process defined in Section 8 of the User Guide.



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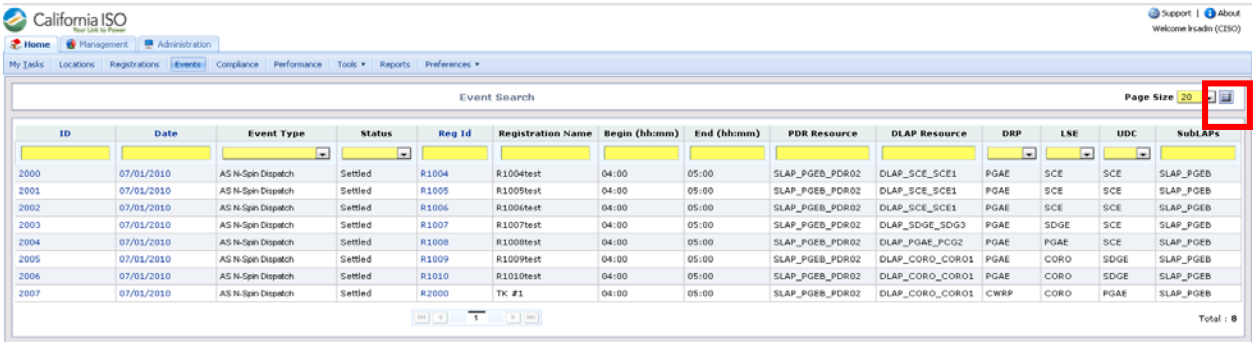
Event Screens

Event Screens identifies event days. Event days for a resource are any days that have active OMS outages, or where a resource has been dispatched for ancillary service, or for energy only in the Day Ahead (DA) or Real Time Market (RTM).

Event Search Screen

The Event Search screen provides users with a list of events initially sorted by the most current date. Users will be able to sort events by writing queries or using predefined queries in the yellow search screens.



ID	Date	Event Type	Status	Reg Id	Registration Name	Begin (hh:mm)	End (hh:mm)	PDR Resource	DLAP Resource	DRP	LSE	UDC	SubLAPs
2000	07/01/2010	AS N-Spin Dispatch	Settled	R1004	R1004test	04:00	05:00	SLAP_PGEB_PDR02	DLAP_SCE_SCE1	PGAE	SCE	SCE	SLAP_PGEB
2001	07/01/2010	AS N-Spin Dispatch	Settled	R1005	R1005test	04:00	05:00	SLAP_PGEB_PDR02	DLAP_SCE_SCE1	PGAE	SCE	SCE	SLAP_PGEB
2002	07/01/2010	AS N-Spin Dispatch	Settled	R1006	R1006test	04:00	05:00	SLAP_PGEB_PDR02	DLAP_SCE_SCE1	PGAE	SCE	SCE	SLAP_PGEB
2003	07/01/2010	AS N-Spin Dispatch	Settled	R1007	R1007test	04:00	05:00	SLAP_PGEB_PDR02	DLAP_SDGE_SDG3	PGAE	SDGE	SCE	SLAP_PGEB
2004	07/01/2010	AS N-Spin Dispatch	Settled	R1008	R1008test	04:00	05:00	SLAP_PGEB_PDR02	DLAP_PGAE_PCG2	PGAE	PGAE	SCE	SLAP_PGEB
2005	07/01/2010	AS N-Spin Dispatch	Settled	R1009	R1009test	04:00	05:00	SLAP_PGEB_PDR02	DLAP_CORO_CORO1	PGAE	CORO	SDGE	SLAP_PGEB
2006	07/01/2010	AS N-Spin Dispatch	Settled	R1010	R1010test	04:00	05:00	SLAP_PGEB_PDR02	DLAP_CORO_CORO1	PGAE	CORO	SDGE	SLAP_PGEB
2007	07/01/2010	AS N-Spin Dispatch	Settled	R2000	TK #1	04:00	05:00	SLAP_PGEB_PDR02	DLAP_CORO_CORO1	CWRP	CORO	PGAE	SLAP_PGEB

Total : 8

Users can also download the data by clicking on the download button located on the top right corner of the screen.

The Event Screen list the following information for each event:

ID – Generic Event ID created by the DRS

Date- The data the Event occurred

Event Type- Lists one of three event type
Resource Outage: Event is a result of OMS outage
AS non Spin: Event is a result of resource AS N-Spin Dispatch
Schedule Energy: Event is a result of resource being dispatched for Energy

Status- Status will always be “Settled”

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Reg ID- Registration ID tied to the Event

Registrations Name- Registration Name identified in the Registration Details page during registration process.

Begin (hh:mm)-Beginning time of the event.

End (hh:mm)- Ending time of the event.

PDR Resource- Resource ID affect by the event

DLAP Resource- DLAP Resource ID in which the event took place.

DRP- DRP ID affected by the event

LSE- LSE ID affected by the event

UDC- UDC ID affected by the event

SubLAPs- SubLAP the event took place in.

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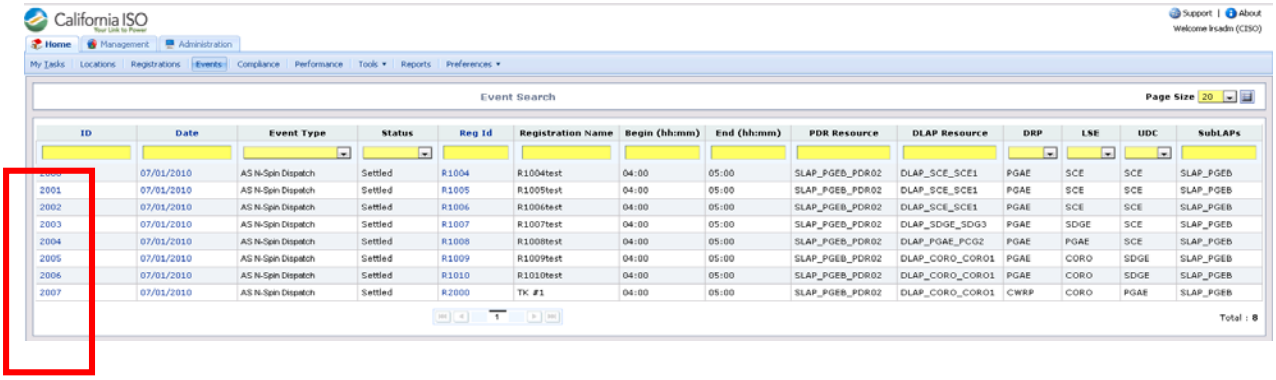
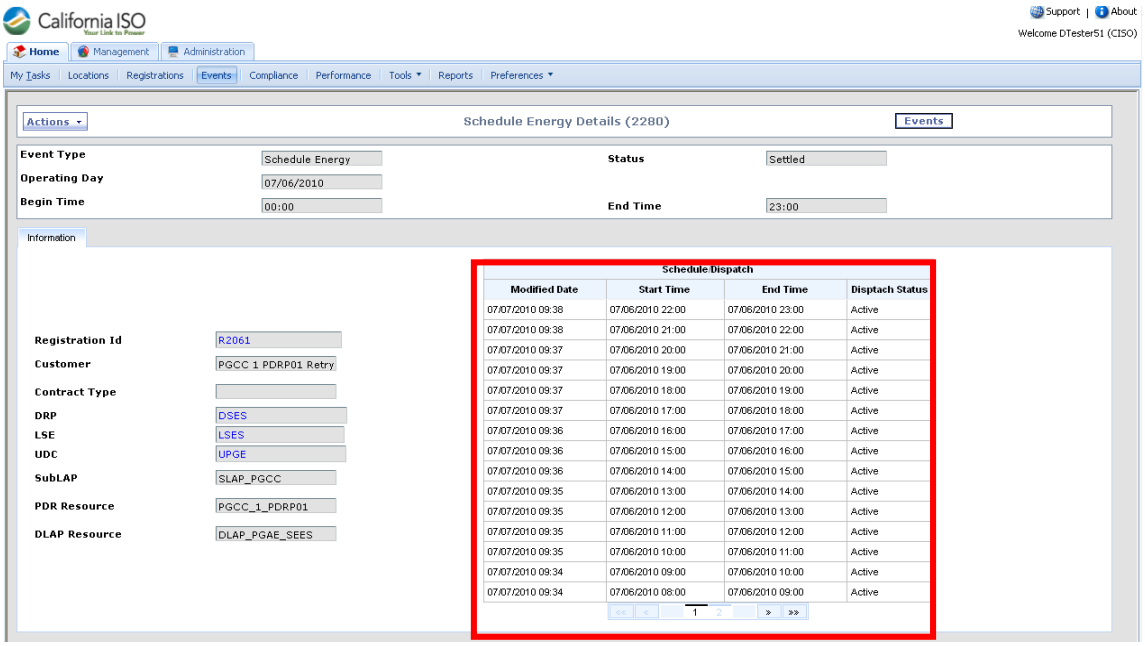
Event Detail Screen

To access the Event Detail screen a user must click on the Event ID hyperlink of the event they wish to see.



The Event Detail screen allows user to view information about the Scheduled Dispath.



User will be able to deterimine the:

Modified Date- the date and time the event processing was run. This is normally an automated process that occurs at the end of each day.

Start Time – The start time of a Event

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End Time - The end time of a Event
Dispatch Status – Normally Active, should not show any other status.

The Scheduled Dispatch table can contain many sets of data, for example if resource was dispatched multiple times a day, then the table will show each those dispatches.

The Event Details screen also provides users information about:

Event Type- Lists one of three event type
Resource Outage: Event is a result of OMS outage
AS N-Spin Dispatch: Event is a result of resource being dispatch for AS
Schedule Energy: Event is a result of resource being dispatch for Energy

Operating Date- The data the Event occurred

Begin Time- Beginning time of the event

End Time- Ending time of the event

Status- Status will always be “Settled”

Registration ID- Registration ID tied to the Event

Customer- Registration Name identified in the Registration Details page during registration process.

DRP- DRP ID affected by the event

LSE- LSE ID affected by the event

UDC- UDC ID affected by the event

SubLAPs- SubLAP the event took place in.

PDR Resource- Resource ID affect by the event

DLAP Resource- DLAP Resource ID affected by the event.

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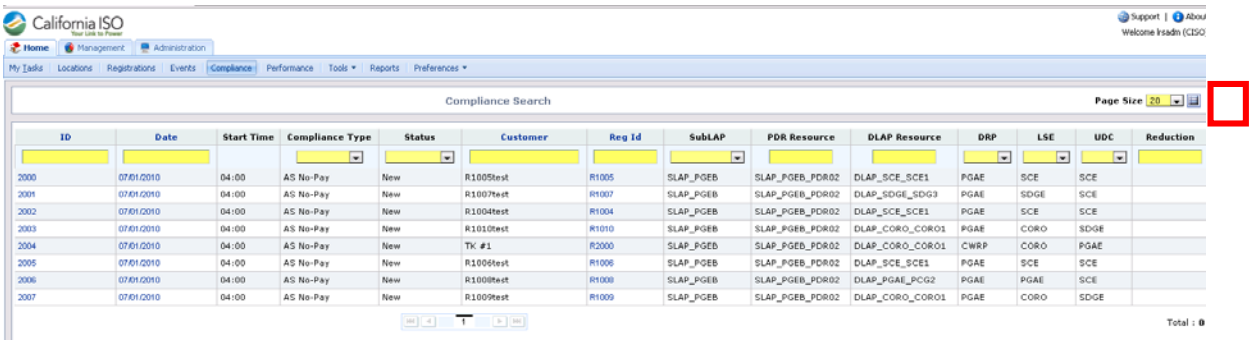
Compliance Screens

The Compliance screens allow users to view the details of an AS dispatch. Users will be able to view all variables, such a baseline, and raw load, to calculate the load reduction.

Compliance Search Screen

The Compliance search screen lists all ancillary service dispatches for non spin, for each resource. Users will be able to sort events by writing queries or using predefined queries in the yellow search screens.


California ISO
Home
Management
Administration
My Tasks
Locations
Registrations
Events
Compliance
Performance
Tools
Reports
Preferences
Compliance Search
Page Size 20
ID
Date
Start Time
Compliance Type
Status
Customer
Reg Id
SubLAP
PDR Resource
DLAP Resource
DRP
LSE
UDC
Reduction
2000 07/01/2010 04:00 AS No-Pay New R1005test R1005 SLAP_PGEB SLAP_PGEB_PDR02 DLAP_SCE_SCE1 PGAE SCE SCE
2001 07/01/2010 04:00 AS No-Pay New R1007test R1007 SLAP_PGEB SLAP_PGEB_PDR02 DLAP_SDGE_SDG3 PGAE SDGE SCE
2002 07/01/2010 04:00 AS No-Pay New R1004test R1004 SLAP_PGEB SLAP_PGEB_PDR02 DLAP_SCE_SCE1 PGAE SCE SCE
2003 07/01/2010 04:00 AS No-Pay New R1010test R1010 SLAP_PGEB SLAP_PGEB_PDR02 DLAP_CORO_CORO1 PGAE CORO SDGE
2004 07/01/2010 04:00 AS No-Pay New TK #1 R2000 SLAP_PGEB SLAP_PGEB_PDR02 DLAP_CORO_CORO1 CWRP CORO PGAE
2005 07/01/2010 04:00 AS No-Pay New R1006test R1006 SLAP_PGEB SLAP_PGEB_PDR02 DLAP_SCE_SCE1 PGAE SCE SCE
2006 07/01/2010 04:00 AS No-Pay New R1008test R1008 SLAP_PGEB SLAP_PGEB_PDR02 DLAP_PGAE_PCG2 PGAE PGAE SCE
2007 07/01/2010 04:00 AS No-Pay New R1009test R1009 SLAP_PGEB SLAP_PGEB_PDR02 DLAP_CORO_CORO1 PGAE CORO SDGE
Total : 0

Users can also download the data by clicking on the download button located on the top right corner of the screen.

The Compliance Screen lists the following information for each event:

ID – Generic Compliance ID created by the DRS

Date- The data the Compliance Event occurred

Start Time- Start Time of the AS award

Compliance Type- Lists one of three event type
AS No-Pay: always set to AS-No Pay

Status- Status of compliance
New- if it is a new compliance event and meter data has not been submitted to calculate load reduction.
Confirmed- Changes status after meter data for event day is submitted and baseline calculated

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Customer- Registration Name identified in the Registration Details page during registration process.

Reg ID- Registration ID tied to the Event

SubLAP- SubLAP the event took place in.

PDR Resource- Resource ID affect by the event

DLAP Resource- DLAP Resource ID in which was affect by the event.

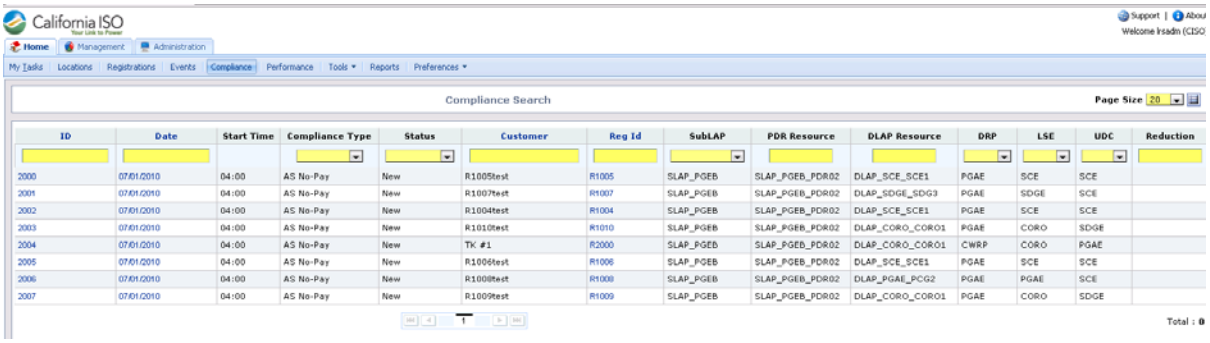
DRP- DRP ID affected by the event

LSE- LSE ID affected by the event

UDC- UDC ID affected by the event

Compliance Detail Screen

To access the Compliance Detail screen a user must click on the Compliance ID hyperlink of the event they wish to see.


California ISO
Home
Management
Administration
My Tasks
Locations
Registrations
Events
Compliance
Performance
Tools
Reports
Preferences
Compliance Search
Page Size 20
ID
Date
Start Time
Compliance Type
Status
Customer
Reg Id
SubLAP
PDR Resource
DLAP Resource
DRP
LSE
UDC
Reduction
2000 07/01/2010 04:00 AS No-Pay New R1005test R1005 SLAP_PGEB SLAP_PGEB_PDR02 DLAP_SCE_SCE1 PGAE SCE SCE
2001 07/01/2010 04:00 AS No-Pay New R1007test R1007 SLAP_PGEB SLAP_PGEB_PDR02 DLAP_SDGE_SDG3 PGAE SDGE SCE
2002 07/01/2010 04:00 AS No-Pay New R1004test R1004 SLAP_PGEB SLAP_PGEB_PDR02 DLAP_SCE_SCE1 PGAE SCE SCE
2003 07/01/2010 04:00 AS No-Pay New R1010test R1010 SLAP_PGEB SLAP_PGEB_PDR02 DLAP_CORO_CORO1 PGAE CORO SDGE
2004 07/01/2010 04:00 AS No-Pay New TK #1 R2000 SLAP_PGEB SLAP_PGEB_PDR02 DLAP_CORO_CORO1 CWRP CORO PGAE
2005 07/01/2010 04:00 AS No-Pay New R1006test R1006 SLAP_PGEB SLAP_PGEB_PDR02 DLAP_SCE_SCE1 PGAE SCE SCE
2006 07/01/2010 04:00 AS No-Pay New R1008test R1008 SLAP_PGEB SLAP_PGEB_PDR02 DLAP_PGAE_PCG2 PGAE PGAE SCE
2007 07/01/2010 04:00 AS No-Pay New R1009test R1009 SLAP_PGEB SLAP_PGEB_PDR02 DLAP_CORO_CORO1 PGAE CORO SDGE
Total : 8

The screen gives users more on what values were used to calculate the load reduction. It is divided into 5 tabs: Details, Meter Data, Locations, Comments, Data History. The screen will always open with the Details tab.

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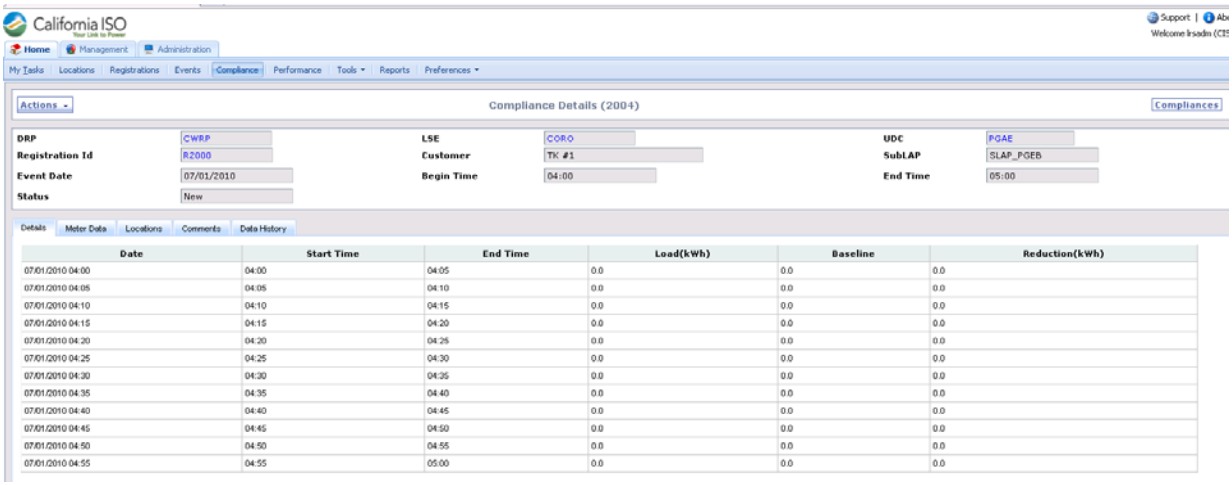

The Compliance Detail Screen lists the following information for each event:

DRP- DRP ID affected by the event

Registration Id- Registration ID related to the event

Event Date- The data the Compliance Event occurred

Status- Status of compliance

New- if it is a new compliance event and meter data has not been submitted to calculate load reduction.

Confirmed- Changes status after meter data for event day is submitted and baseline calculated.

LSE- LSE ID affected by the event

Customer- Registration Name identified in the Registration Details page during registration process.

Begin Time- Start Time of the AS award

UDC- UDC ID affected by the event

SubLAP- SubLAP the event took place in.

End Time - End Time of the AS award

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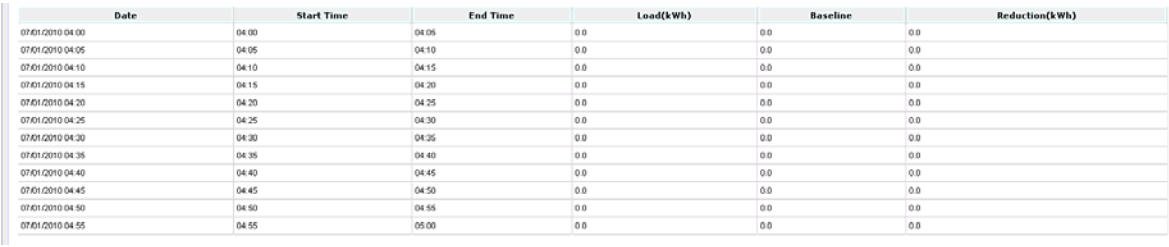
It also gives users a table that shows detail information of the AS event, listing:



Date	Start Time	End Time	Load(kWh)	Baseline	Reduction(kWh)
07/01/2010 04:00	04:00	04:05	0.0	0.0	0.0
07/01/2010 04:05	04:05	04:10	0.0	0.0	0.0
07/01/2010 04:10	04:10	04:15	0.0	0.0	0.0
07/01/2010 04:15	04:15	04:20	0.0	0.0	0.0
07/01/2010 04:20	04:20	04:25	0.0	0.0	0.0
07/01/2010 04:25	04:25	04:30	0.0	0.0	0.0
07/01/2010 04:30	04:30	04:35	0.0	0.0	0.0
07/01/2010 04:35	04:35	04:40	0.0	0.0	0.0
07/01/2010 04:40	04:40	04:45	0.0	0.0	0.0
07/01/2010 04:45	04:45	04:50	0.0	0.0	0.0
07/01/2010 04:50	04:50	04:55	0.0	0.0	0.0
07/01/2010 04:55	04:55	05:00	0.0	0.0	0.0

Date- The Date and the start time of the AS dispatch, shown in 5 minute intervals

Start Time- The start time of the AS dispatch interval

End Time- The end time of the AS dispatch interval

Load (kWh) - The load in kilowatt hour for the current interval

Baseline- The calculated baseline with the current interval

Reduction (kWh) - The load reduction in kilowatt hour for the current interval

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Compliance Meter Data Screen

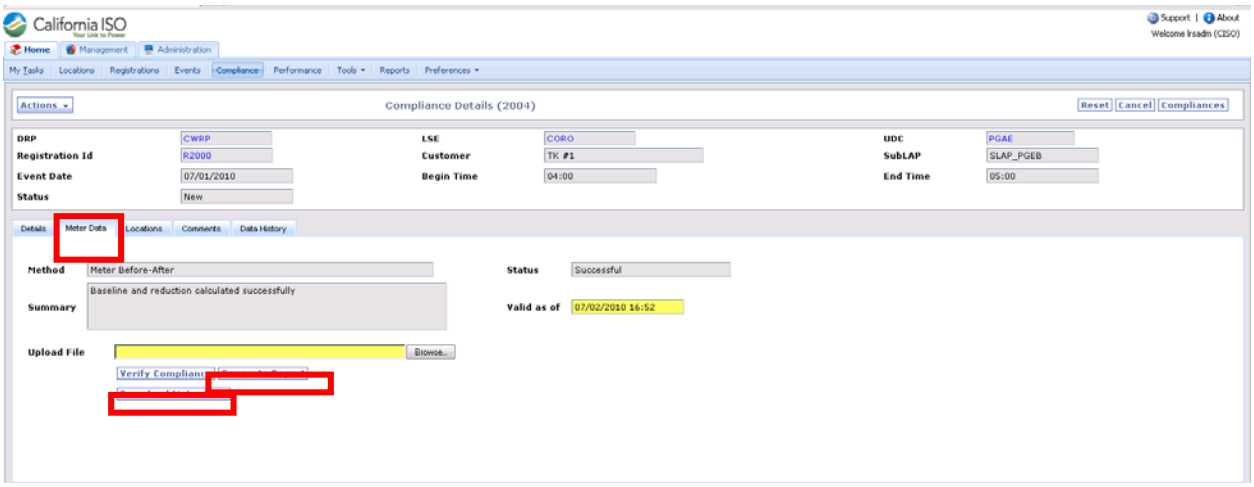
The compliance meter data screen list:

Method – method used to calculate the load reduction

Summary – summary what process occurred and if there were any errors.

Status – The current status of the event. The event will read successful if the data is available and load reduction calculation was performed successfully.

Valid as of – List the time with the calculation was run, and load reduction was calculated successfully.



The **Generate Report** Button allow users to download an the calculations used for load reductions.

Summary Tab

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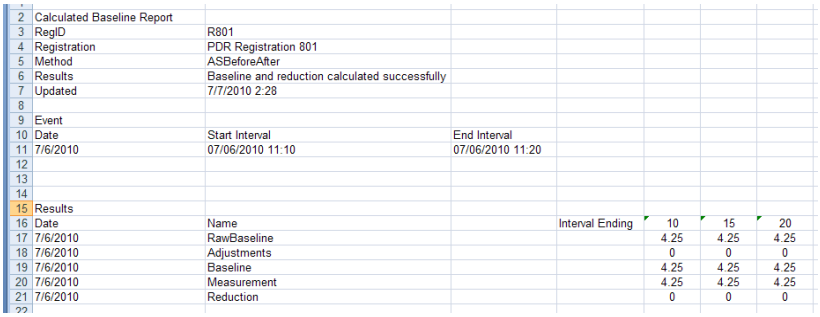

2	Calculated Baseline Report						
3	RegID	R801					
4	Registration	PDR Registration 801					
5	Method	ASBeforeAfter					
6	Results	Baseline and reduction calculated successfully					
7	Updated	7/7/2010 2:28					
8							
9	Event						
10	Date	Start Interval	End Interval				
11	7/6/2010	07/06/2010 11:10	07/06/2010 11:20				
12							
13							
14							
15	Results						
16	Date	Name		Interval Ending	10	15	20
17	7/6/2010	RawBaseline			4.25	4.25	4.25
18	7/6/2010	Adjustments			0	0	0
19	7/6/2010	Baseline			4.25	4.25	4.25
20	7/6/2010	Measurement			4.25	4.25	4.25
21	7/6/2010	Reduction			0	0	0

The summary tab gives basic information about the Event and what values are used to calculate the load reduction.

Meter Data Tab

	submissiontype	registration	timestamp	reading
2	Load	801	07/06/2010 11:05	4.25
3	Load	801	07/06/2010 11:10	4.25
4	Load	801	07/06/2010 11:15	4.25
5	Load	801	07/06/2010 11:20	4.25
6	Load	801	07/06/2010 11:25	4.25
7				

The meter data tab shows the meter data reading used in calculating the load reductions.

The **Download Meter Data** button allows users to download the meter data in a XML format that was used to calculate the load reduction for this event.

Manually Run Compliance

This action is limited to users with administration rights.

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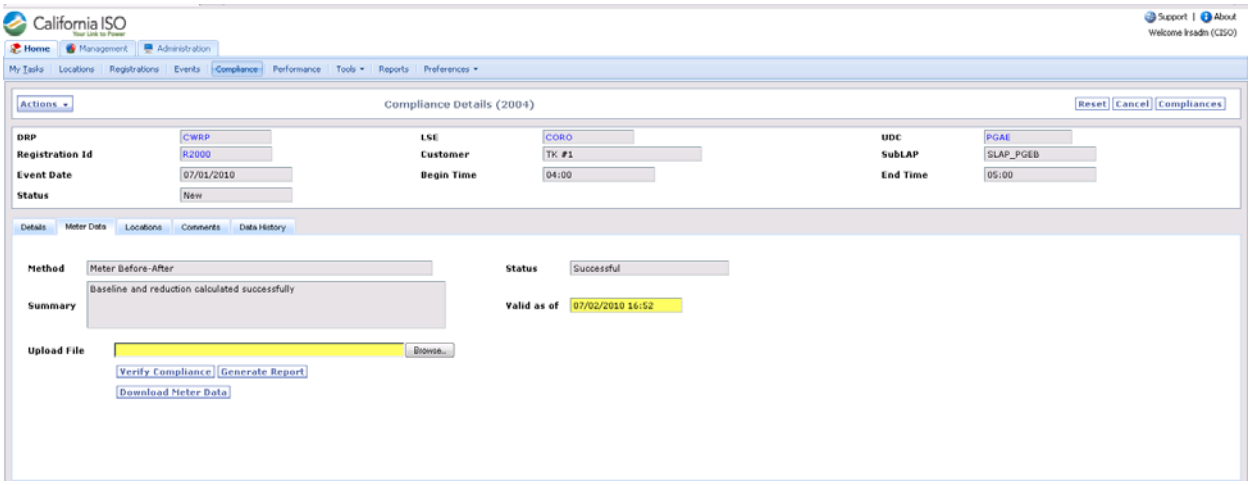
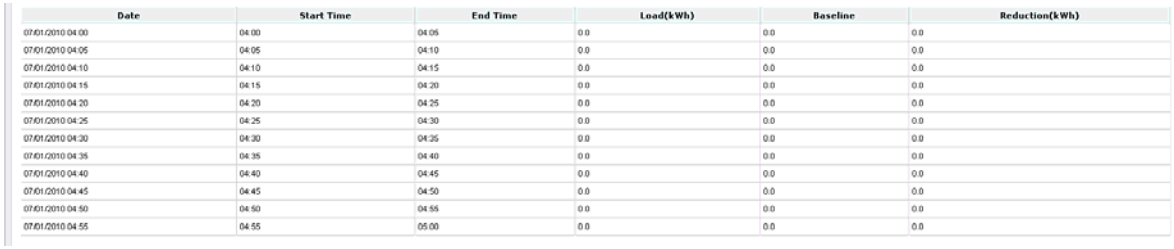


The user can click on the **Verify Compliance** button to run the baseline calculation for a specific event.

To view the results of the run the user will have to go back to the **Details** tab. And look and the table to view the load reduction.



Date	Start Time	End Time	Load(kWh)	Baseline	Reduction(kWh)
07/01/2010 04:00	04:00	04:05	0.0	0.0	0.0
07/01/2010 04:05	04:05	04:10	0.0	0.0	0.0
07/01/2010 04:10	04:10	04:15	0.0	0.0	0.0
07/01/2010 04:15	04:15	04:20	0.0	0.0	0.0
07/01/2010 04:20	04:20	04:25	0.0	0.0	0.0
07/01/2010 04:25	04:25	04:30	0.0	0.0	0.0
07/01/2010 04:30	04:30	04:35	0.0	0.0	0.0
07/01/2010 04:35	04:35	04:40	0.0	0.0	0.0
07/01/2010 04:40	04:40	04:45	0.0	0.0	0.0
07/01/2010 04:45	04:45	04:50	0.0	0.0	0.0
07/01/2010 04:50	04:50	04:55	0.0	0.0	0.0
07/01/2010 04:55	04:55	05:00	0.0	0.0	0.0

Compliance Location Screen

The compliance location screen shows the locations linked to the registration that had an AS dispatch. To access the location details the user can click on the location name hyperlink.

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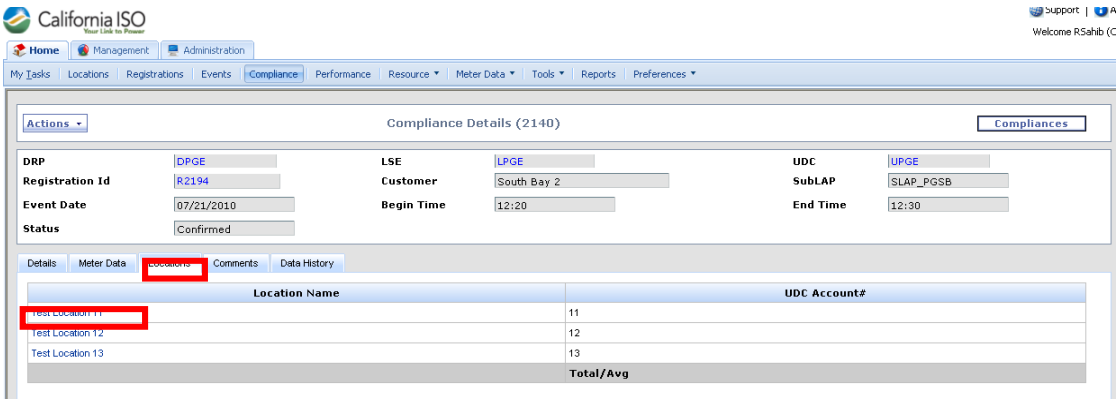
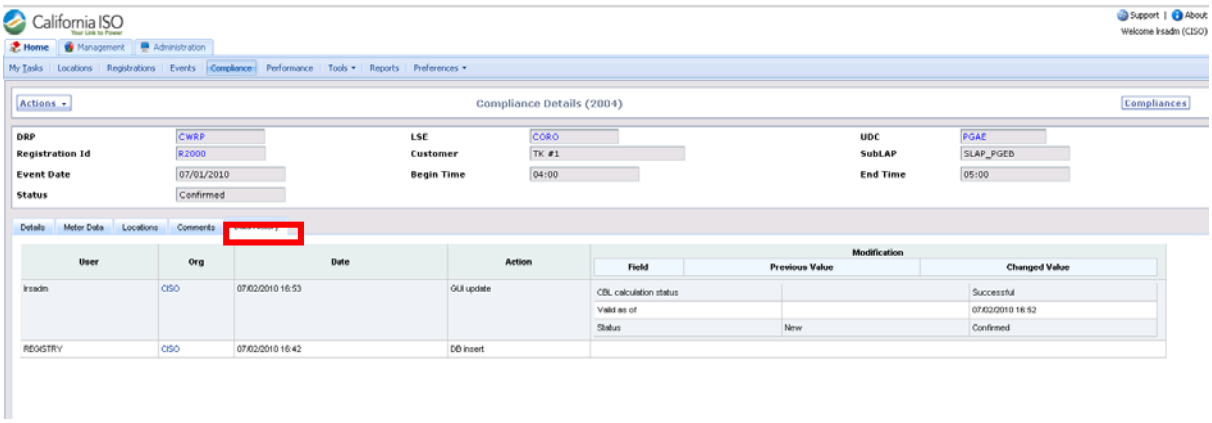


This screen also shows the UDC Account # for each location.

Compliance Comment and Data History Screen

The Comment screen is a generic screen that all users that have access to that screen can post messages about a particular compliance event.

The Data History Tab, list key updates to the Compliance events. For example when the compliance event first occurred, and when the CBL calculation and load reduction was successfully calculated.



The screen lists the time and date or all major occurrences.

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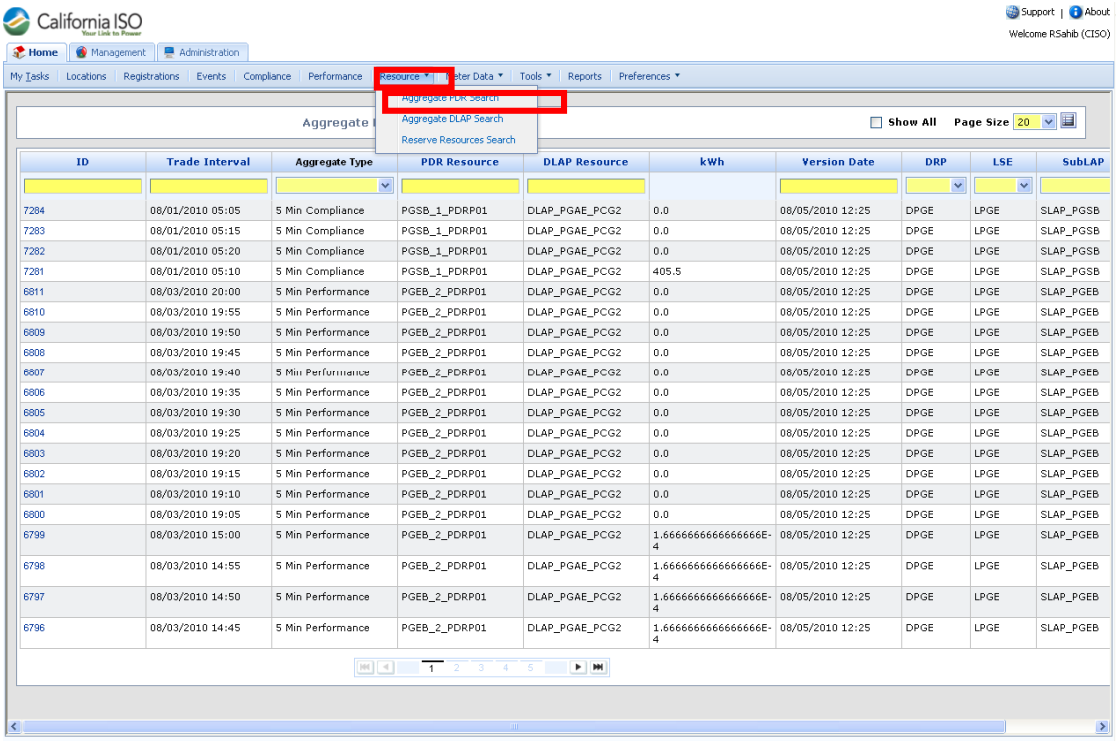
Aggregation Screens

The Aggregation Screen provides users a view of 5 minute data aggregated up to a PDR resource level of a DLAP.

PDR Aggregation


California ISO
Support | About
Welcome RSahib (CISO)
Home
Management
Administration
My Tasks
Locations
Registrations
Events
Compliance
Performance
Resource
Meter Data
Tools
Reports
Preferences
Aggregate PDR Search
Aggregate DLAP Search
Reserve Resources Search
Show All
Page Size 20
ID
Trade Interval
Aggregate Type
PDR Resource
DLAP Resource
kWh
Version Date
DRP
LSE
SubLAP
7284 08/01/2010 05:05 5 Min Compliance PGSB_1_PDRP01 DLAP_PGAE_PCG2 0.0 08/05/2010 12:25 DPGE LPGE SLAP_PGSB
7283 08/01/2010 05:15 5 Min Compliance PGSB_1_PDRP01 DLAP_PGAE_PCG2 0.0 08/05/2010 12:25 DPGE LPGE SLAP_PGSB
7282 08/01/2010 05:20 5 Min Compliance PGSB_1_PDRP01 DLAP_PGAE_PCG2 0.0 08/05/2010 12:25 DPGE LPGE SLAP_PGSB
7281 08/01/2010 05:10 5 Min Compliance PGSB_1_PDRP01 DLAP_PGAE_PCG2 405.5 08/05/2010 12:25 DPGE LPGE SLAP_PGSB
6811 08/03/2010 20:00 5 Min Performance PGEB_2_PDRP01 DLAP_PGAE_PCG2 0.0 08/05/2010 12:25 DPGE LPGE SLAP_PGEB
6810 08/03/2010 19:55 5 Min Performance PGEB_2_PDRP01 DLAP_PGAE_PCG2 0.0 08/05/2010 12:25 DPGE LPGE SLAP_PGEB
6809 08/03/2010 19:50 5 Min Performance PGEB_2_PDRP01 DLAP_PGAE_PCG2 0.0 08/05/2010 12:25 DPGE LPGE SLAP_PGEB
6808 08/03/2010 19:45 5 Min Performance PGEB_2_PDRP01 DLAP_PGAE_PCG2 0.0 08/05/2010 12:25 DPGE LPGE SLAP_PGEB
6807 08/03/2010 19:40 5 Min Performance PGEB_2_PDRP01 DLAP_PGAE_PCG2 0.0 08/05/2010 12:25 DPGE LPGE SLAP_PGEB
6806 08/03/2010 19:35 5 Min Performance PGEB_2_PDRP01 DLAP_PGAE_PCG2 0.0 08/05/2010 12:25 DPGE LPGE SLAP_PGEB
6805 08/03/2010 19:30 5 Min Performance PGEB_2_PDRP01 DLAP_PGAE_PCG2 0.0 08/05/2010 12:25 DPGE LPGE SLAP_PGEB
6804 08/03/2010 19:25 5 Min Performance PGEB_2_PDRP01 DLAP_PGAE_PCG2 0.0 08/05/2010 12:25 DPGE LPGE SLAP_PGEB
6803 08/03/2010 19:20 5 Min Performance PGEB_2_PDRP01 DLAP_PGAE_PCG2 0.0 08/05/2010 12:25 DPGE LPGE SLAP_PGEB
6802 08/03/2010 19:15 5 Min Performance PGEB_2_PDRP01 DLAP_PGAE_PCG2 0.0 08/05/2010 12:25 DPGE LPGE SLAP_PGEB
6801 08/03/2010 19:10 5 Min Performance PGEB_2_PDRP01 DLAP_PGAE_PCG2 0.0 08/05/2010 12:25 DPGE LPGE SLAP_PGEB
6800 08/03/2010 19:05 5 Min Performance PGEB_2_PDRP01 DLAP_PGAE_PCG2 0.0 08/05/2010 12:25 DPGE LPGE SLAP_PGEB
6799 08/03/2010 15:00 5 Min Performance PGEB_2_PDRP01 DLAP_PGAE_PCG2 1.6666666666666666E-4 08/05/2010 12:25 DPGE LPGE SLAP_PGEB
6798 08/03/2010 14:55 5 Min Performance PGEB_2_PDRP01 DLAP_PGAE_PCG2 1.6666666666666666E-4 08/05/2010 12:25 DPGE LPGE SLAP_PGEB
6797 08/03/2010 14:50 5 Min Performance PGEB_2_PDRP01 DLAP_PGAE_PCG2 1.6666666666666666E-4 08/05/2010 12:25 DPGE LPGE SLAP_PGEB
6796 08/03/2010 14:45 5 Min Performance PGEB_2_PDRP01 DLAP_PGAE_PCG2 1.6666666666666666E-4 08/05/2010 12:25 DPGE LPGE SLAP_PGEB

To access the PDR aggregation screens, a user must click on the **Resource** menu and select the **Aggregate PDR Search** from the drop down.

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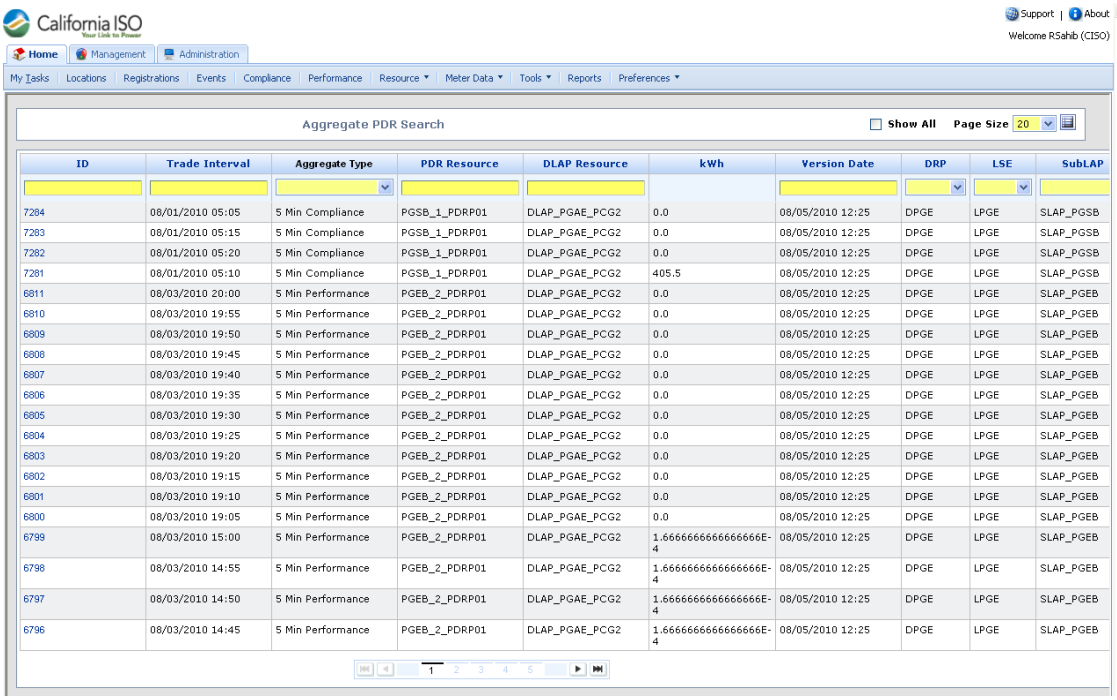
California ISO
Support | About
Welcome RSahib (CISO)
Home
Management
Administration
My Tasks | Locations | Registrations | Events | Compliance | Performance | Resource | Meter Data | Tools | Reports | Preferences
Aggregate PDR Search
Show All
Page Size 20

ID	Trade Interval	Aggregate Type	PDR Resource	DLAP Resource	kWh	Version Date	DRP	LSE	SubLAP
7284	08/01/2010 05:05	5 Min Compliance	PGSB_1_PDRP01	DLAP_PGAE_PCG2	0.0	08/05/2010 12:25	DPGE	LPGE	SLAP_PGSB
7283	08/01/2010 05:15	5 Min Compliance	PGSB_1_PDRP01	DLAP_PGAE_PCG2	0.0	08/05/2010 12:25	DPGE	LPGE	SLAP_PGSB
7282	08/01/2010 05:20	5 Min Compliance	PGSB_1_PDRP01	DLAP_PGAE_PCG2	0.0	08/05/2010 12:25	DPGE	LPGE	SLAP_PGSB
7281	08/01/2010 05:10	5 Min Compliance	PGSB_1_PDRP01	DLAP_PGAE_PCG2	405.5	08/05/2010 12:25	DPGE	LPGE	SLAP_PGSB
6811	08/03/2010 20:00	5 Min Performance	PGEB_2_PDRP01	DLAP_PGAE_PCG2	0.0	08/05/2010 12:25	DPGE	LPGE	SLAP_PGEB
6810	08/03/2010 19:55	5 Min Performance	PGEB_2_PDRP01	DLAP_PGAE_PCG2	0.0	08/05/2010 12:25	DPGE	LPGE	SLAP_PGEB
6809	08/03/2010 19:50	5 Min Performance	PGEB_2_PDRP01	DLAP_PGAE_PCG2	0.0	08/05/2010 12:25	DPGE	LPGE	SLAP_PGEB
6808	08/03/2010 19:45	5 Min Performance	PGEB_2_PDRP01	DLAP_PGAE_PCG2	0.0	08/05/2010 12:25	DPGE	LPGE	SLAP_PGEB
6807	08/03/2010 19:40	5 Min Performance	PGEB_2_PDRP01	DLAP_PGAE_PCG2	0.0	08/05/2010 12:25	DPGE	LPGE	SLAP_PGEB
6806	08/03/2010 19:35	5 Min Performance	PGEB_2_PDRP01	DLAP_PGAE_PCG2	0.0	08/05/2010 12:25	DPGE	LPGE	SLAP_PGEB
6805	08/03/2010 19:30	5 Min Performance	PGEB_2_PDRP01	DLAP_PGAE_PCG2	0.0	08/05/2010 12:25	DPGE	LPGE	SLAP_PGEB
6804	08/03/2010 19:25	5 Min Performance	PGEB_2_PDRP01	DLAP_PGAE_PCG2	0.0	08/05/2010 12:25	DPGE	LPGE	SLAP_PGEB
6803	08/03/2010 19:20	5 Min Performance	PGEB_2_PDRP01	DLAP_PGAE_PCG2	0.0	08/05/2010 12:25	DPGE	LPGE	SLAP_PGEB
6802	08/03/2010 19:15	5 Min Performance	PGEB_2_PDRP01	DLAP_PGAE_PCG2	0.0	08/05/2010 12:25	DPGE	LPGE	SLAP_PGEB
6801	08/03/2010 19:10	5 Min Performance	PGEB_2_PDRP01	DLAP_PGAE_PCG2	0.0	08/05/2010 12:25	DPGE	LPGE	SLAP_PGEB
6800	08/03/2010 19:05	5 Min Performance	PGEB_2_PDRP01	DLAP_PGAE_PCG2	0.0	08/05/2010 12:25	DPGE	LPGE	SLAP_PGEB
6799	08/03/2010 15:00	5 Min Performance	PGEB_2_PDRP01	DLAP_PGAE_PCG2	1.6666666666666666E-4	08/05/2010 12:25	DPGE	LPGE	SLAP_PGEB
6798	08/03/2010 14:55	5 Min Performance	PGEB_2_PDRP01	DLAP_PGAE_PCG2	1.6666666666666666E-4	08/05/2010 12:25	DPGE	LPGE	SLAP_PGEB
6797	08/03/2010 14:50	5 Min Performance	PGEB_2_PDRP01	DLAP_PGAE_PCG2	1.6666666666666666E-4	08/05/2010 12:25	DPGE	LPGE	SLAP_PGEB
6796	08/03/2010 14:45	5 Min Performance	PGEB_2_PDRP01	DLAP_PGAE_PCG2	1.6666666666666666E-4	08/05/2010 12:25	DPGE	LPGE	SLAP_PGEB

The PDR Aggregation Search lists 5 minute aggregation for each PDR resource ID for each aggregation type. Users will be able to view the following information for each 5 minute aggregation type:

ID- Generic Aggregation ID assigned by the DRS

Trade Interval- the Interval Ending time period

Aggregate Type-

5 Min Compliance: shows aggregation for a compliance event
5 Min Performance: shows aggregation for a performance event
5 Min Load: shows aggregation for submitted meter data

PDR Resource- identifies the PDR Resource ID

DLAP Resource- identified the DLAP this aggregation is assigned to

kWh- shows the total kWh of load of load reduction for compliance and performance events, and the total load based on the aggregation type.

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Version Date- shows when the aggregation was run, and the time period it is valid for.

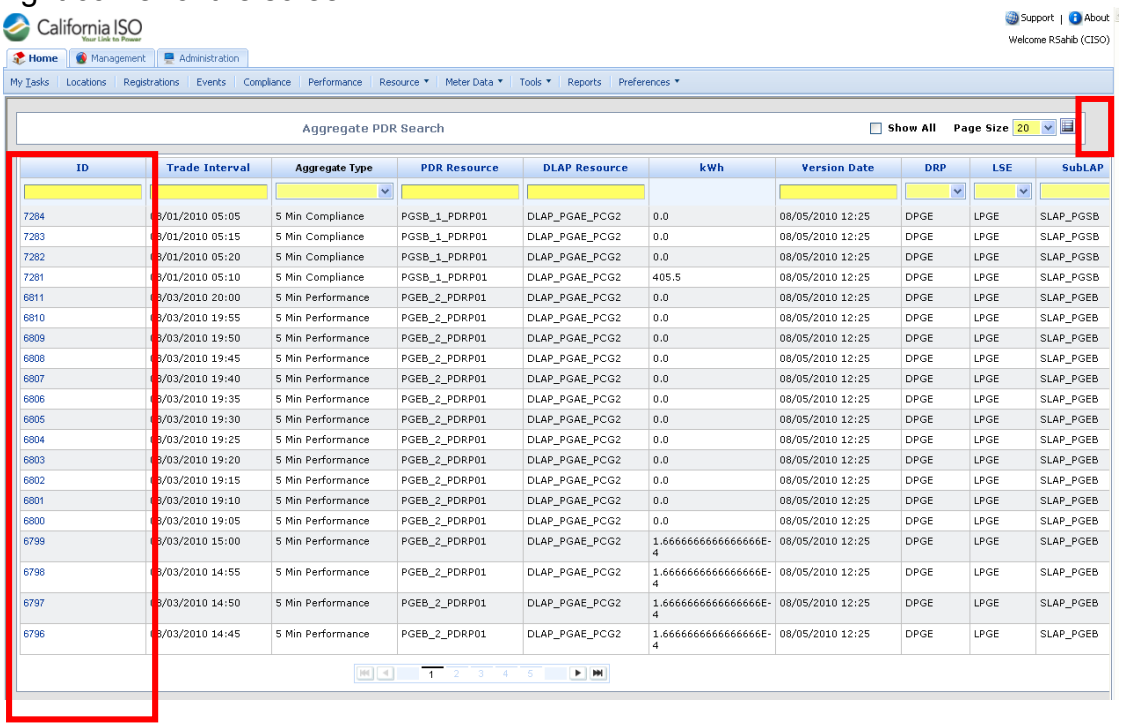
DRP- identifies the DRP associated to the aggregation.

LSE- identifies the LSE associated to the aggregation.

SubLAP- identifies the SubLAP associated to the aggregation.

User will be able to filter the Display by any of these fields.

Users can also download the data by click on the downloand button located on the top right corner of the screen.


California ISO
Support | About
Welcome RSahib (CISO)
Home
Management
Administration
My Tasks | Locations | Registrations | Events | Compliance | Performance | Resource | Meter Data | Tools | Reports | Preferences
Aggregate PDR Search
Show All
Page Size 20

ID	Trade Interval	Aggregate Type	PDR Resource	DLAP Resource	kWh	Version Date	DRP	LSE	SubLAP
7284	08/01/2010 05:05	5 Min Compliance	PGSB_1_PDRP01	DLAP_PGAE_PCG2	0.0	08/05/2010 12:25	DPGE	LPGE	SLAP_PGSB
7283	08/01/2010 05:15	5 Min Compliance	PGSB_1_PDRP01	DLAP_PGAE_PCG2	0.0	08/05/2010 12:25	DPGE	LPGE	SLAP_PGSB
7282	08/01/2010 05:20	5 Min Compliance	PGSB_1_PDRP01	DLAP_PGAE_PCG2	0.0	08/05/2010 12:25	DPGE	LPGE	SLAP_PGSB
7281	08/01/2010 05:10	5 Min Compliance	PGSB_1_PDRP01	DLAP_PGAE_PCG2	405.5	08/05/2010 12:25	DPGE	LPGE	SLAP_PGSB
6811	08/03/2010 20:00	5 Min Performance	PGEB_2_PDRP01	DLAP_PGAE_PCG2	0.0	08/05/2010 12:25	DPGE	LPGE	SLAP_PGEB
6810	08/03/2010 19:55	5 Min Performance	PGEB_2_PDRP01	DLAP_PGAE_PCG2	0.0	08/05/2010 12:25	DPGE	LPGE	SLAP_PGEB
6809	08/03/2010 19:50	5 Min Performance	PGEB_2_PDRP01	DLAP_PGAE_PCG2	0.0	08/05/2010 12:25	DPGE	LPGE	SLAP_PGEB
6808	08/03/2010 19:45	5 Min Performance	PGEB_2_PDRP01	DLAP_PGAE_PCG2	0.0	08/05/2010 12:25	DPGE	LPGE	SLAP_PGEB
6807	08/03/2010 19:40	5 Min Performance	PGEB_2_PDRP01	DLAP_PGAE_PCG2	0.0	08/05/2010 12:25	DPGE	LPGE	SLAP_PGEB
6806	08/03/2010 19:35	5 Min Performance	PGEB_2_PDRP01	DLAP_PGAE_PCG2	0.0	08/05/2010 12:25	DPGE	LPGE	SLAP_PGEB
6805	08/03/2010 19:30	5 Min Performance	PGEB_2_PDRP01	DLAP_PGAE_PCG2	0.0	08/05/2010 12:25	DPGE	LPGE	SLAP_PGEB
6804	08/03/2010 19:25	5 Min Performance	PGEB_2_PDRP01	DLAP_PGAE_PCG2	0.0	08/05/2010 12:25	DPGE	LPGE	SLAP_PGEB
6803	08/03/2010 19:20	5 Min Performance	PGEB_2_PDRP01	DLAP_PGAE_PCG2	0.0	08/05/2010 12:25	DPGE	LPGE	SLAP_PGEB
6802	08/03/2010 19:15	5 Min Performance	PGEB_2_PDRP01	DLAP_PGAE_PCG2	0.0	08/05/2010 12:25	DPGE	LPGE	SLAP_PGEB
6801	08/03/2010 19:10	5 Min Performance	PGEB_2_PDRP01	DLAP_PGAE_PCG2	0.0	08/05/2010 12:25	DPGE	LPGE	SLAP_PGEB
6800	08/03/2010 19:05	5 Min Performance	PGEB_2_PDRP01	DLAP_PGAE_PCG2	0.0	08/05/2010 12:25	DPGE	LPGE	SLAP_PGEB
6799	08/03/2010 15:00	5 Min Performance	PGEB_2_PDRP01	DLAP_PGAE_PCG2	1.6666666666666666E-4	08/05/2010 12:25	DPGE	LPGE	SLAP_PGEB
6798	08/03/2010 14:55	5 Min Performance	PGEB_2_PDRP01	DLAP_PGAE_PCG2	1.6666666666666666E-4	08/05/2010 12:25	DPGE	LPGE	SLAP_PGEB
6797	08/03/2010 14:50	5 Min Performance	PGEB_2_PDRP01	DLAP_PGAE_PCG2	1.6666666666666666E-4	08/05/2010 12:25	DPGE	LPGE	SLAP_PGEB
6796	08/03/2010 14:45	5 Min Performance	PGEB_2_PDRP01	DLAP_PGAE_PCG2	1.6666666666666666E-4	08/05/2010 12:25	DPGE	LPGE	SLAP_PGEB

To view details on the various aggregations, users can click on the ID field. It will take user to the different search screen based on the aggregation types.

If a user clicks on a 5 Min Compliance aggregation ID, it will take them to the Compliance Search Screen.

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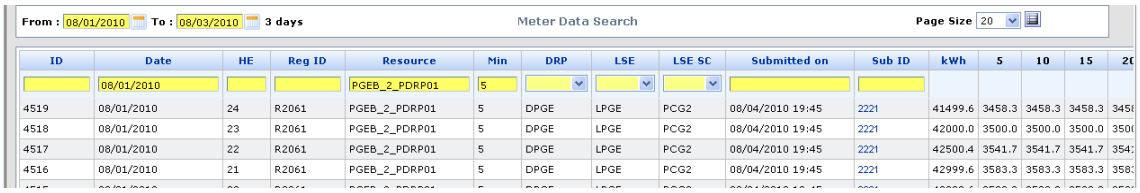
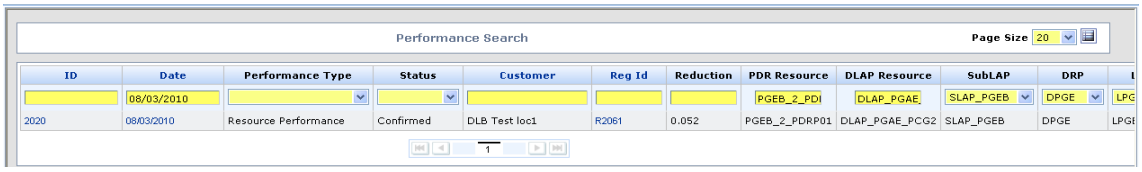
If a user clicks on a 5 Min Load aggregation ID, it will take them to the Meter Data Search Screen.



If a user clicks on a 5 Min Performance aggregation ID, it will take them to the Performance Search Screen.



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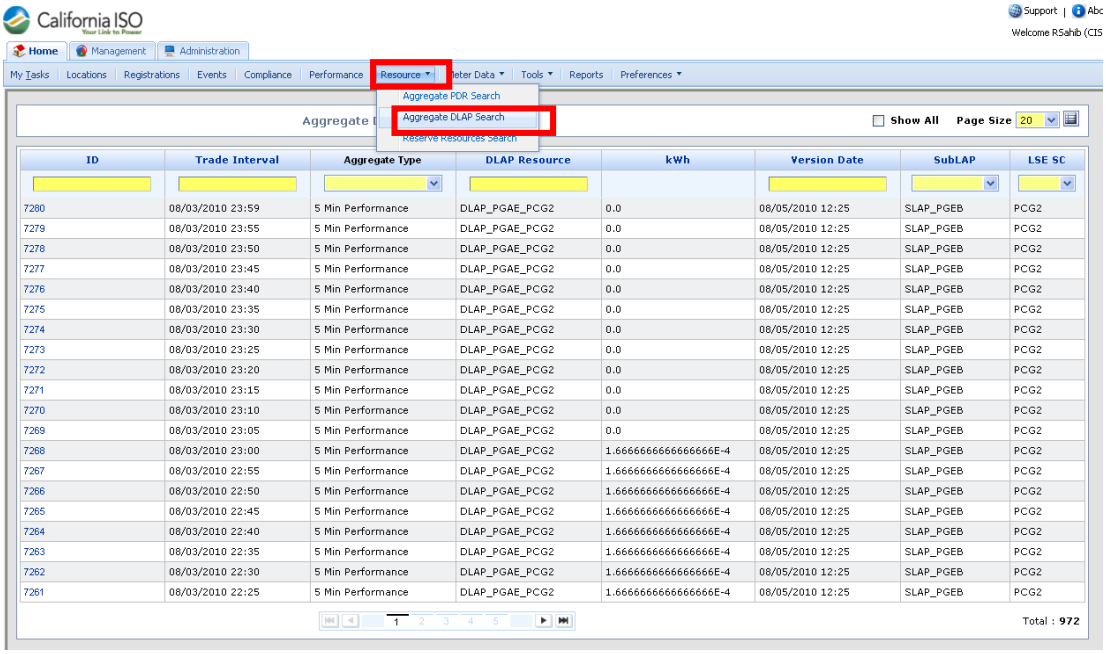
DLAP Aggregation

To access the DLAP aggregation screens, a user must click on the **Resource** menu and select the **Aggregate DLAP Search** from the drop down.


California ISO
Support | Abc
Welcome RSahib (CIS
Home
Management
Administration
My Tasks
Locations
Registrations
Events
Compliance
Performance
Resource
Meter Data
Tools
Reports
Preferences
Aggregate PDR Search
Aggregate DLAP Search
Reserve Resources Search
Aggregate
Show All
Page Size 20
ID
Trade Interval
Aggregate Type
DLAP Resource
kWh
Version Date
SubLAP
LSE SC
7280 08/03/2010 23:59 5 Min Performance DLAP_PGAE_PCG2 0.0 08/05/2010 12:25 SLAP_PGEB PCG2
7279 08/03/2010 23:55 5 Min Performance DLAP_PGAE_PCG2 0.0 08/05/2010 12:25 SLAP_PGEB PCG2
7278 08/03/2010 23:50 5 Min Performance DLAP_PGAE_PCG2 0.0 08/05/2010 12:25 SLAP_PGEB PCG2
7277 08/03/2010 23:45 5 Min Performance DLAP_PGAE_PCG2 0.0 08/05/2010 12:25 SLAP_PGEB PCG2
7276 08/03/2010 23:40 5 Min Performance DLAP_PGAE_PCG2 0.0 08/05/2010 12:25 SLAP_PGEB PCG2
7275 08/03/2010 23:35 5 Min Performance DLAP_PGAE_PCG2 0.0 08/05/2010 12:25 SLAP_PGEB PCG2
7274 08/03/2010 23:30 5 Min Performance DLAP_PGAE_PCG2 0.0 08/05/2010 12:25 SLAP_PGEB PCG2
7273 08/03/2010 23:25 5 Min Performance DLAP_PGAE_PCG2 0.0 08/05/2010 12:25 SLAP_PGEB PCG2
7272 08/03/2010 23:20 5 Min Performance DLAP_PGAE_PCG2 0.0 08/05/2010 12:25 SLAP_PGEB PCG2
7271 08/03/2010 23:15 5 Min Performance DLAP_PGAE_PCG2 0.0 08/05/2010 12:25 SLAP_PGEB PCG2
7270 08/03/2010 23:10 5 Min Performance DLAP_PGAE_PCG2 0.0 08/05/2010 12:25 SLAP_PGEB PCG2
7269 08/03/2010 23:05 5 Min Performance DLAP_PGAE_PCG2 0.0 08/05/2010 12:25 SLAP_PGEB PCG2
7268 08/03/2010 23:00 5 Min Performance DLAP_PGAE_PCG2 1.6666666666666666E-4 08/05/2010 12:25 SLAP_PGEB PCG2
7267 08/03/2010 22:55 5 Min Performance DLAP_PGAE_PCG2 1.6666666666666666E-4 08/05/2010 12:25 SLAP_PGEB PCG2
7266 08/03/2010 22:50 5 Min Performance DLAP_PGAE_PCG2 1.6666666666666666E-4 08/05/2010 12:25 SLAP_PGEB PCG2
7265 08/03/2010 22:45 5 Min Performance DLAP_PGAE_PCG2 1.6666666666666666E-4 08/05/2010 12:25 SLAP_PGEB PCG2
7264 08/03/2010 22:40 5 Min Performance DLAP_PGAE_PCG2 1.6666666666666666E-4 08/05/2010 12:25 SLAP_PGEB PCG2
7263 08/03/2010 22:35 5 Min Performance DLAP_PGAE_PCG2 1.6666666666666666E-4 08/05/2010 12:25 SLAP_PGEB PCG2
7262 08/03/2010 22:30 5 Min Performance DLAP_PGAE_PCG2 1.6666666666666666E-4 08/05/2010 12:25 SLAP_PGEB PCG2
7261 08/03/2010 22:25 5 Min Performance DLAP_PGAE_PCG2 1.6666666666666666E-4 08/05/2010 12:25 SLAP_PGEB PCG2
Total : 972

The DLAP Aggregation Search lists 5 minute performance aggregation for each DLAP for each aggregation type. Users will be able to view the following information for each 5 minute aggregation type:

ID- Generic Aggregation ID assigned by the DRS

Trade Interval- the Interval Ending time period

Aggregate Type-

5 Min Compliance: shows aggregation for a compliance event
5 Min Performance: shows aggregation for a performance event
5 Min Load: shows aggregation for submitted meter data

DLAP Resource- identified the DLAP this aggregation is assigned to
kWh- shows the total kWh of load of load reduction for performance events.

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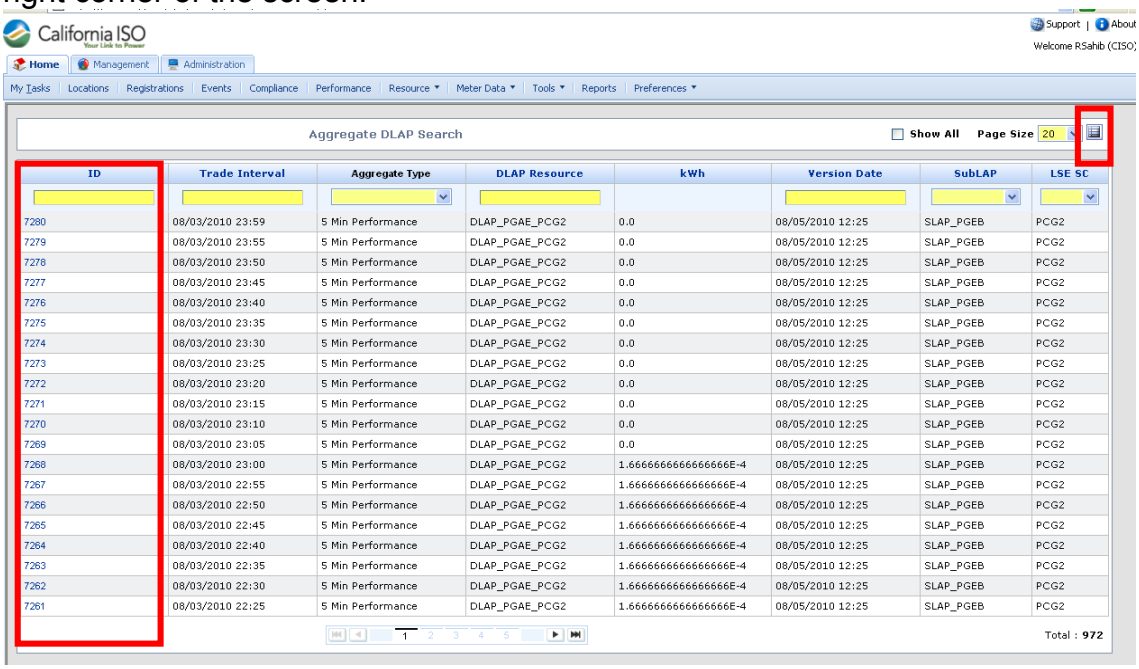
Version Date- shows when the aggregation was run, and the time period it is valid for.

SubLAP- identifies the SubLAP associated to the aggregation.

LSE_SC- identifies the LSE Scheduling Coordinator associated to the aggregation.

User will be able to filter the Display by any of these fields except kWh.

Users can also download the data by click on the download button located on the top right corner of the screen.


California ISO
Support | About
Welcome RSahib (CISO)
Home
Management
Administration
My Tasks | Locations | Registrations | Events | Compliance | Performance | Resource | Meter Data | Tools | Reports | Preferences
Aggregate DLAP Search
Show All
Page Size 20
Total : 972

ID	Trade Interval	Aggregate Type	DLAP Resource	kWh	Version Date	SubLAP	LSE SC
7280	08/03/2010 23:59	5 Min Performance	DLAP_PGAE_PCG2	0.0	08/05/2010 12:25	SLAP_PGEB	PCG2
7279	08/03/2010 23:55	5 Min Performance	DLAP_PGAE_PCG2	0.0	08/05/2010 12:25	SLAP_PGEB	PCG2
7278	08/03/2010 23:50	5 Min Performance	DLAP_PGAE_PCG2	0.0	08/05/2010 12:25	SLAP_PGEB	PCG2
7277	08/03/2010 23:45	5 Min Performance	DLAP_PGAE_PCG2	0.0	08/05/2010 12:25	SLAP_PGEB	PCG2
7276	08/03/2010 23:40	5 Min Performance	DLAP_PGAE_PCG2	0.0	08/05/2010 12:25	SLAP_PGEB	PCG2
7275	08/03/2010 23:35	5 Min Performance	DLAP_PGAE_PCG2	0.0	08/05/2010 12:25	SLAP_PGEB	PCG2
7274	08/03/2010 23:30	5 Min Performance	DLAP_PGAE_PCG2	0.0	08/05/2010 12:25	SLAP_PGEB	PCG2
7273	08/03/2010 23:25	5 Min Performance	DLAP_PGAE_PCG2	0.0	08/05/2010 12:25	SLAP_PGEB	PCG2
7272	08/03/2010 23:20	5 Min Performance	DLAP_PGAE_PCG2	0.0	08/05/2010 12:25	SLAP_PGEB	PCG2
7271	08/03/2010 23:15	5 Min Performance	DLAP_PGAE_PCG2	0.0	08/05/2010 12:25	SLAP_PGEB	PCG2
7270	08/03/2010 23:10	5 Min Performance	DLAP_PGAE_PCG2	0.0	08/05/2010 12:25	SLAP_PGEB	PCG2
7269	08/03/2010 23:05	5 Min Performance	DLAP_PGAE_PCG2	0.0	08/05/2010 12:25	SLAP_PGEB	PCG2
7268	08/03/2010 23:00	5 Min Performance	DLAP_PGAE_PCG2	1.6666666666666666E-4	08/05/2010 12:25	SLAP_PGEB	PCG2
7267	08/03/2010 22:55	5 Min Performance	DLAP_PGAE_PCG2	1.6666666666666666E-4	08/05/2010 12:25	SLAP_PGEB	PCG2
7266	08/03/2010 22:50	5 Min Performance	DLAP_PGAE_PCG2	1.6666666666666666E-4	08/05/2010 12:25	SLAP_PGEB	PCG2
7265	08/03/2010 22:45	5 Min Performance	DLAP_PGAE_PCG2	1.6666666666666666E-4	08/05/2010 12:25	SLAP_PGEB	PCG2
7264	08/03/2010 22:40	5 Min Performance	DLAP_PGAE_PCG2	1.6666666666666666E-4	08/05/2010 12:25	SLAP_PGEB	PCG2
7263	08/03/2010 22:35	5 Min Performance	DLAP_PGAE_PCG2	1.6666666666666666E-4	08/05/2010 12:25	SLAP_PGEB	PCG2
7262	08/03/2010 22:30	5 Min Performance	DLAP_PGAE_PCG2	1.6666666666666666E-4	08/05/2010 12:25	SLAP_PGEB	PCG2
7261	08/03/2010 22:25	5 Min Performance	DLAP_PGAE_PCG2	1.6666666666666666E-4	08/05/2010 12:25	SLAP_PGEB	PCG2

To view details on the 5 Min Performance aggregations, users can click on the ID field. It will take user to the 5 Min Performance search screen based on the aggregation types.

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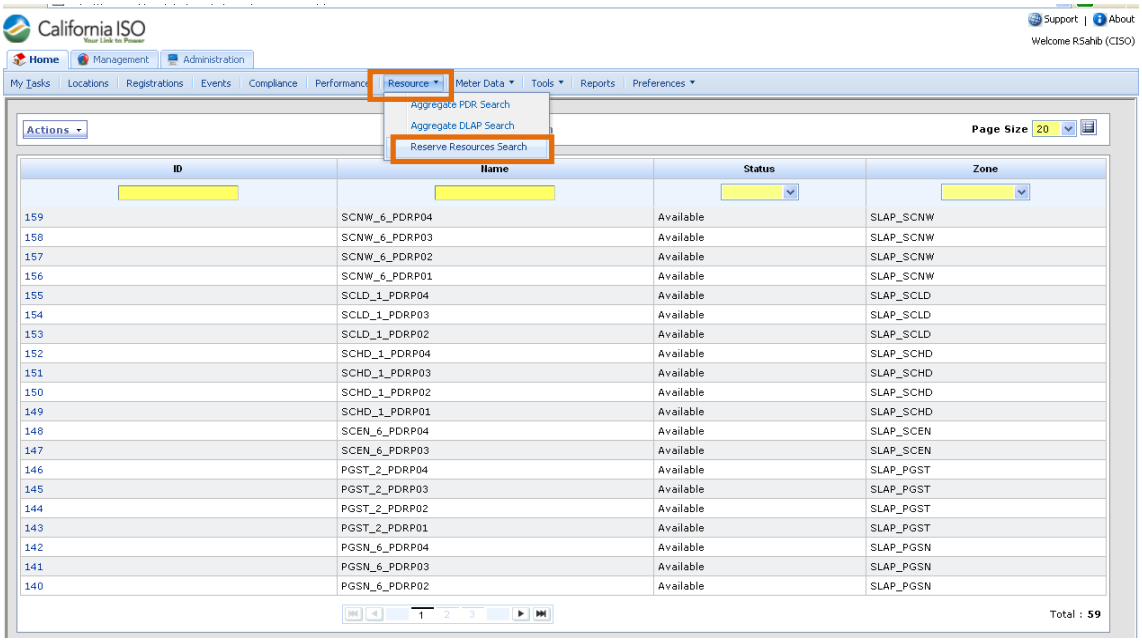
Reserve Resource Search

The following screens and functions are only available to the CAISO operator and those with administration access.

To access the Reserve Resource Search screens, a user must click on the **Resource** menu and select the **Reserve Resource Search** from the drop down.



Users will see and filter by the following fields:

ID- Generic ID assigned by the DRS

Name- The unassigned Resource ID

Status- Current status of a resource ID

Available- resource ID is available to be assigned to a DRP, it is not assigned to anyone else.

New- Used for custom resources that has not be updated in the Master File

Reserved- resource ID is already assigned to a DRP

Confirmed- The resource has been properly configured and assigned to a confirmed registration.

Zone- The SubLAP associated with the resource ID.

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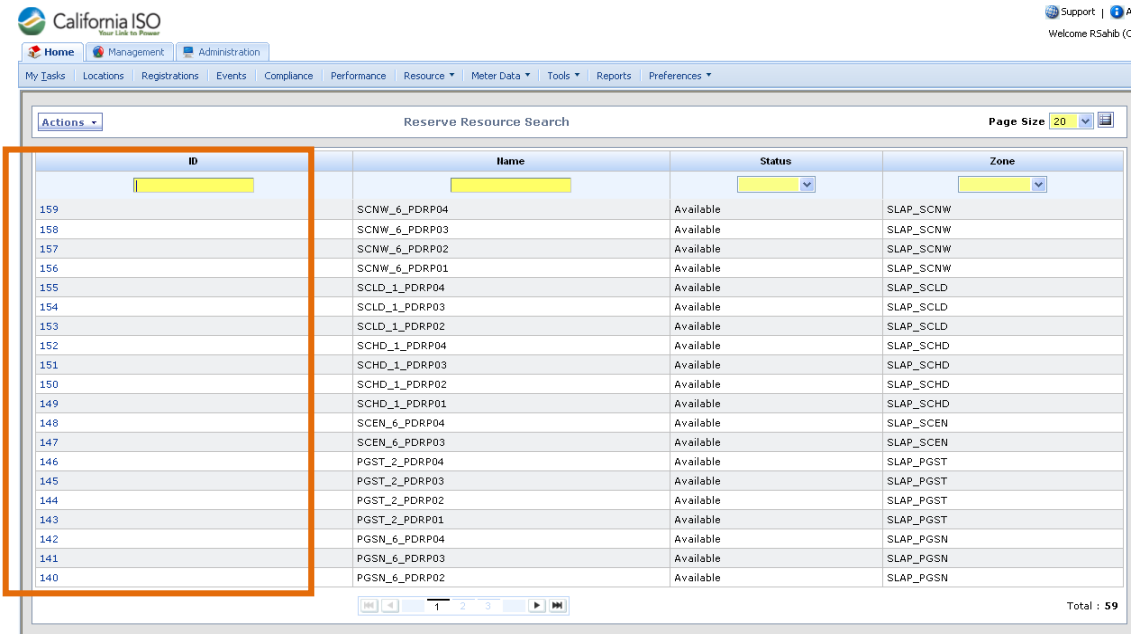
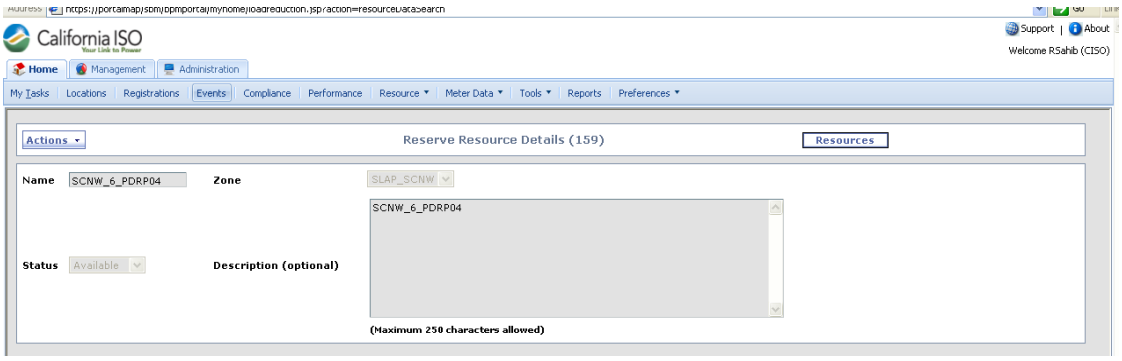
To view the details of a resource ID a user can click on the ID and select the ID of the resource they wish view.


California ISO
Support | A
Welcome RSahib (C
Home
Management
Administration
My Tasks | Locations | Registrations | Events | Compliance | Performance | Resource | Meter Data | Tools | Reports | Preferences
Actions
Reserve Resource Search
Page Size 20
ID | Name | Status | Zone
159 | SCNW_6_PDRP04 | Available | SLAP_SCNW
158 | SCNW_6_PDRP03 | Available | SLAP_SCNW
157 | SCNW_6_PDRP02 | Available | SLAP_SCNW
156 | SCNW_6_PDRP01 | Available | SLAP_SCNW
155 | SCLD_1_PDRP04 | Available | SLAP_SCLD
154 | SCLD_1_PDRP03 | Available | SLAP_SCLD
153 | SCLD_1_PDRP02 | Available | SLAP_SCLD
152 | SCHD_1_PDRP04 | Available | SLAP_SCHD
151 | SCHD_1_PDRP03 | Available | SLAP_SCHD
150 | SCHD_1_PDRP02 | Available | SLAP_SCHD
149 | SCHD_1_PDRP01 | Available | SLAP_SCHD
148 | SCEN_6_PDRP04 | Available | SLAP_SCEN
147 | SCEN_6_PDRP03 | Available | SLAP_SCEN
146 | PGST_2_PDRP04 | Available | SLAP_PGST
145 | PGST_2_PDRP03 | Available | SLAP_PGST
144 | PGST_2_PDRP02 | Available | SLAP_PGST
143 | PGST_2_PDRP01 | Available | SLAP_PGST
142 | PGSN_6_PDRP04 | Available | SLAP_PGSN
141 | PGSN_6_PDRP03 | Available | SLAP_PGSN
140 | PGSN_6_PDRP02 | Available | SLAP_PGSN
1 2 3
Total : 59

The detail screen show the same detail as the aggregation screen



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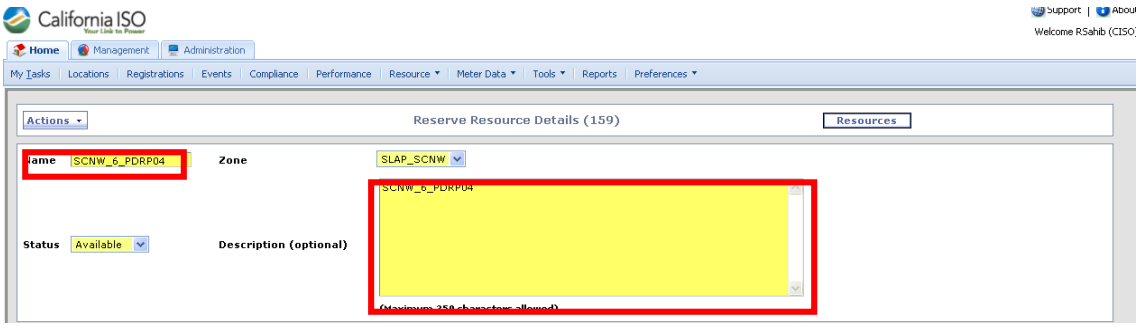
Changing the Status of a Resource ID

To modify the details of a resource ID a user can click on the ID and select the ID of the resource they wish change in the Reserve Resource Search screen.

It will take the user to the Reserve Resource Details screen. To change the status the user can select Action >> Edit Resource

This will change allow the field that was previously grey to yellow, and allows users to edit them.

User can modify the name of the resource ID or add additional description.



By selecting the **Zone** drop down, the user can reassign a resource ID to a different SubLAP.

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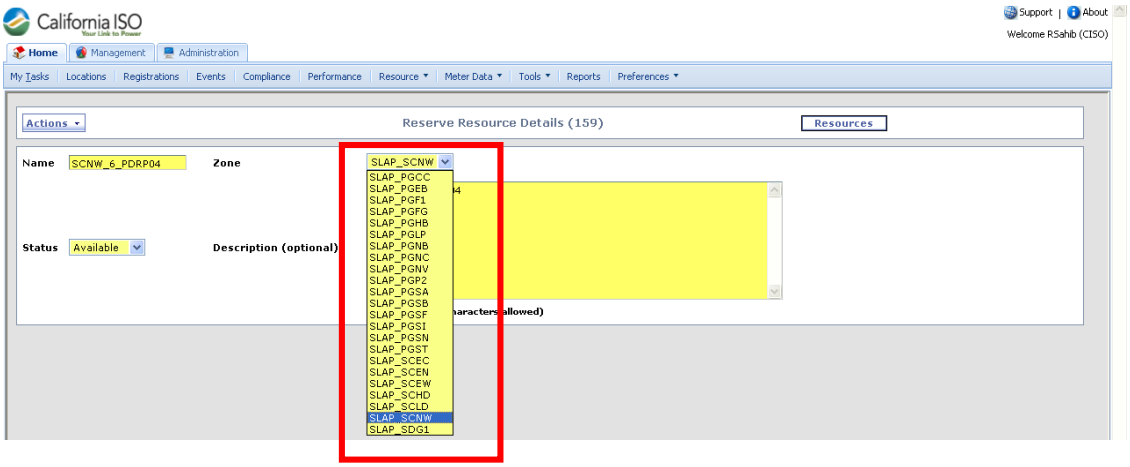
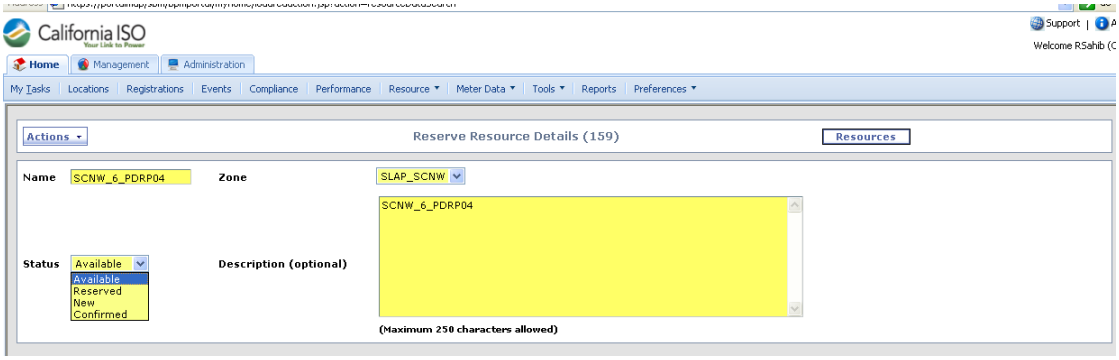


Similarly a user can select the **Status** drop down and change the status of the resource ID.



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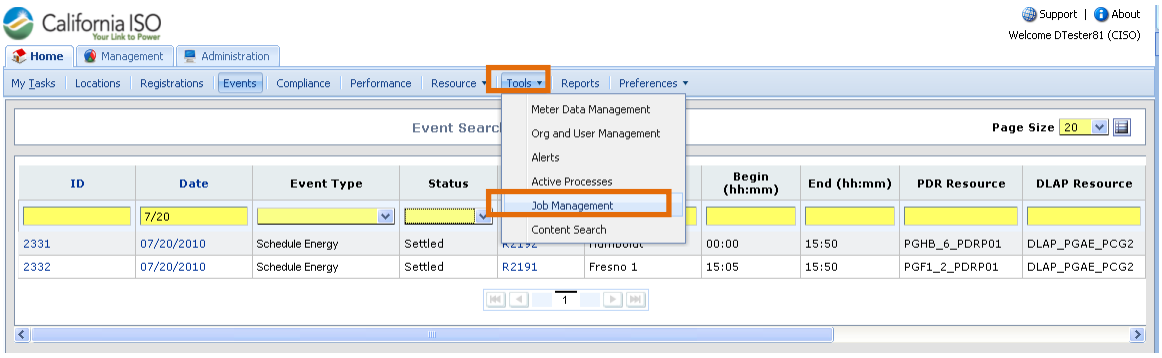
Job Management Screen

This screen can only be run by CAISO users with administration rights. It allows users to manually run end of day process, and view logs, and perform other administrative functions.

Manually Running End of Day Processes

This process can only be run by CAISO users with administration rights. It allows users to manually run end of day process. Users must go to the main menu and select **Tools**, and then **Job Management** from the drop down menu.



The **Details** screen allows users to run specific processes. User can get more details on each of the jobs by clicking on the Job Names.

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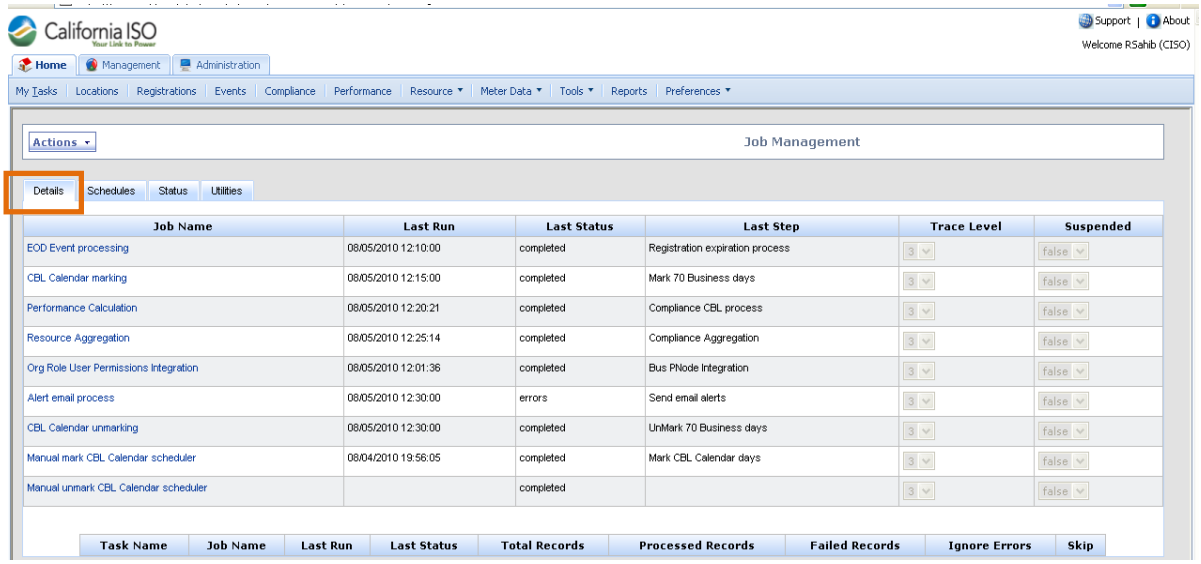
California ISO
Support | About
Welcome RSahib (CISO)
Home
Management
Administration
My Tasks | Locations | Registrations | Events | Compliance | Performance | Resource | Meter Data | Tools | Reports | Preferences
Actions
Job Management
Details
Schedules
Status
Utilities
Job Name | Last Run | Last Status | Last Step | Trace Level | Suspended
EOD Event processing | 08/05/2010 12:10:00 | completed | Registration expiration process | 3 | false
CBL Calendar marking | 08/05/2010 12:15:00 | completed | Mark 70 Business days | 3 | false
Performance Calculation | 08/05/2010 12:20:21 | completed | Compliance CBL process | 3 | false
Resource Aggregation | 08/05/2010 12:25:14 | completed | Compliance Aggregation | 3 | false
Org Role User Permissions Integration | 08/05/2010 12:01:36 | completed | Bus PNode Integration | 3 | false
Alert email process | 08/05/2010 12:30:00 | errors | Send email alerts | 3 | false
CBL Calendar unmarking | 08/05/2010 12:30:00 | completed | UnMark 70 Business days | 3 | false
Manual mark CBL Calendar scheduler | 08/04/2010 19:56:05 | completed | Mark CBL Calendar days | 3 | false
Manual unmark CBL Calendar scheduler | | completed | | 3 | false
Task Name | Job Name | Last Run | Last Status | Total Records | Processed Records | Failed Records | Ignore Errors | Skip

The **EOD Event Processing** processes and stores the meter data and reviews the registrations, this process will need to be run before all others.

Task Name	Job Name	Last Run	Last Status	Total Records	Processed Records	Failed Records	Ignore Errors	Skip
End Of Day	EOD Event processing	08/05/2010 12:10:00	completed	0	0	0	true	false
Registration expiration process	EOD Event processing	08/05/2010 12:10:00	completed	0	0	0	true	false

The **CBL Calendar** recalculates the baselines for 3 key market timelines, listed at T+5B, T+32B, and T+70B

Task Name	Job Name	Last Run	Last Status	Total Records	Processed Records	Failed Records	Ignore Errors	Skip
Mark 5 Business days	CBL Calendar marking	08/05/2010 12:15:00	completed	1	1	0	false	false
Mark 32 Business days	CBL Calendar marking	08/05/2010 12:15:00	completed	1	1	0	false	false
Mark 70 Business days	CBL Calendar marking	08/05/2010 12:15:00	completed	1	1	0	false	false

The **Performance calculation** reviews the all the meter data and calculates the load reduction for scheduled energy resources through the use of the 10 and 10 baselines, and the AS non spin, compliance baseline the use of meter before and meter after baseline.

Task Name	Job Name	Last Run	Last Status	Total Records	Processed Records	Failed Records	Ignore Errors	Skip
Check meter data	Performance Calculation	08/05/2010 12:20:00	completed	4	4	0	true	false
Settlement CBL Process	Performance Calculation	08/05/2010 12:20:12	completed	3	3	0	true	false
Compliance CBL process	Performance Calculation	08/05/2010 12:20:21	completed	1	1	0	false	false

The **Resource Aggregation** job run aggregated all the meter data, compliance, and performance to a DLAP and each PDR resource.

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Task Name	Job Name	Last Run	Last Status	Total Records	Processed Records	Failed Records	Ignore Errors	Skip
Meter Data Aggregation	Resource Aggregation	08/05/2010 12:25:12	completed	864	864	0	false	false
Settlement PDR Aggregation	Resource Aggregation	08/05/2010 12:25:14	completed	468	468	0	false	false
Settlement DLA Aggregation	Resource Aggregation	08/05/2010 12:25:14	completed	468	468	0	false	false
Compliance Aggregation	Resource Aggregation	08/05/2010 12:25:14	completed	4	4	0	false	false

The **Org Role User Permission Integration** job run helps update the LDAP security access and other permissions of DRS users.

Task Name	Job Name	Last Run	Last Status	Total Records	Processed Records	Failed Records	Ignore Errors	Skip
Org Role Integration	Org Role User Permissions Integration	08/05/2010 12:00:02	completed	0	0	0		
Ldap Integration	Org Role User Permissions Integration	08/05/2010 12:01:05	completed	0	0	0		
User Permission Integration	Org Role User Permissions Integration	08/05/2010 12:01:05	completed	3	3	0		
Resource Integration	Org Role User Permissions Integration	08/05/2010 12:01:06	completed	0	0	0		
Bus PNode Integration	Org Role User Permissions Integration	08/05/2010 12:01:36	completed	0	0	0		

The **Alert email process** is currently not functioning but in the future can be used to send notices of system events.

Task Name	Job Name	Last Run	Last Status	Total Records	Processed Records	Failed Records	Ignore Errors	Skip
Send email alerts	Alert email process	08/05/2010 12:30:00	errors	2	2	0	false	false

The **CBL calendar unmarking** allows users to disable or re-enable auto run processes that are for T+5B, T+32B, and T+70B.

Task Name	Job Name	Last Run	Last Status	Total Records	Processed Records	Failed Records	Ignore Errors	Skip
UnMark 5 Business days	CBL Calendar unmarking	08/05/2010 12:30:00	completed	1	1	0	false	false
UnMark 32 Business days	CBL Calendar unmarking	08/05/2010 12:30:00	completed	1	1	0	false	false
UnMark 70 Business days	CBL Calendar unmarking	08/05/2010 12:30:00	completed	1	1	0	false	false

The **Manual mark CBL Calendar scheduler** allows users to define a specific day they want to rerun processes for. This day will remain in the stack to rerun on each time the DRS does an auto run.

Task Name	Job Name	Last Run	Last Status	Total Records	Processed Records	Failed Records	Offset Days	Ignore Errors	Skip
Mark CBL Calendar days	Manual mark CBL Calendar scheduler	08/04/2010 19:56:05	completed	1	1	0	1	false	false

The **Manual unmark CBL Calendar scheduler** allows to unmark a previously mark date.

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Task Name	Job Name	Last Run	Last Status	Total Records	Processed Records	Failed Records	Offset Days	Ignore Errors	Skip
UnMark CBL Calendar days	Manual unmark CBL Calendar scheduler		completed				1	false	false

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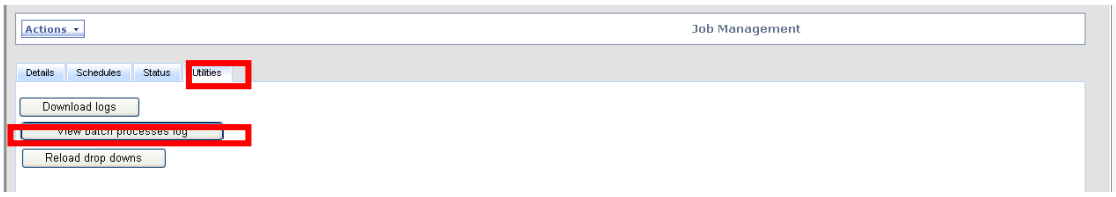
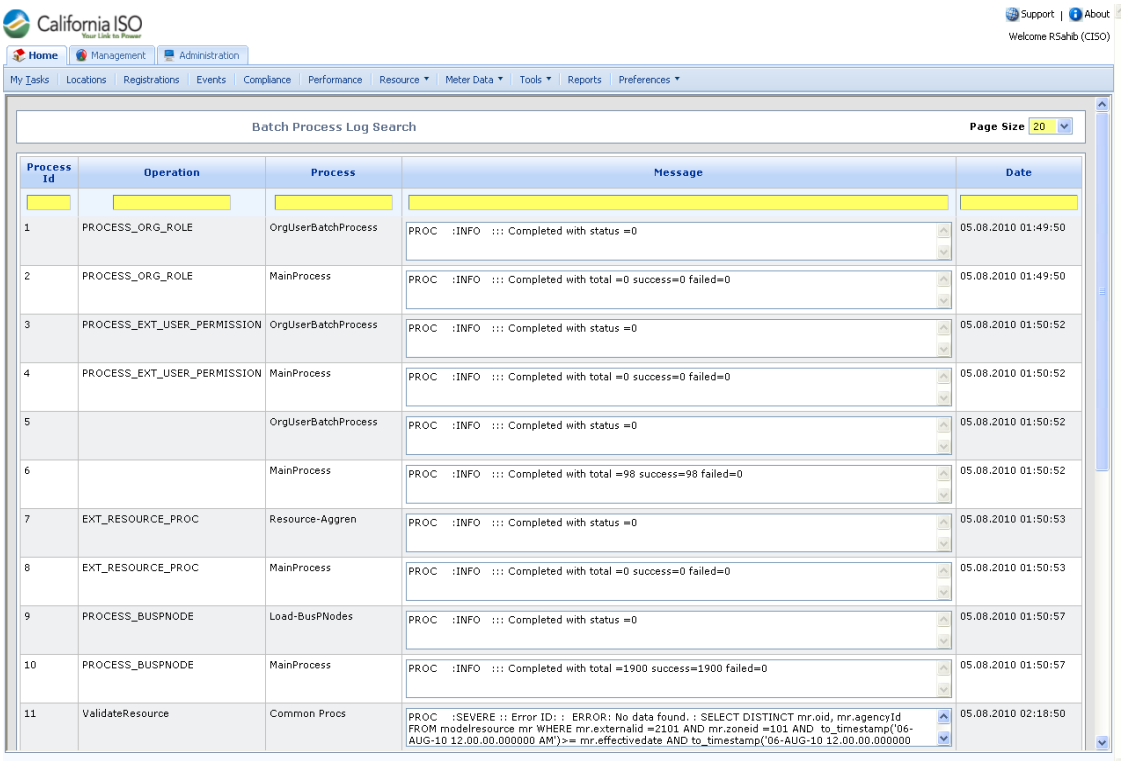
Log Screen

The Utility tab on the Job Management screen allows users to download or view logs using the user interface.



If users click on the **view batch process log** they will be able to view all the process runs and when they occurred.



Process Id	Operation	Process	Message	Date
1	PROCESS_ORG_ROLE	OrgUserBatchProcess	PROC :INFO ::: Completed with status =0	05.08.2010 01:49:50
2	PROCESS_ORG_ROLE	MainProcess	PROC :INFO ::: Completed with total =0 success=0 failed=0	05.08.2010 01:49:50
3	PROCESS_EXT_USER_PERMISSION	OrgUserBatchProcess	PROC :INFO ::: Completed with status =0	05.08.2010 01:50:52
4	PROCESS_EXT_USER_PERMISSION	MainProcess	PROC :INFO ::: Completed with total =0 success=0 failed=0	05.08.2010 01:50:52
5		OrgUserBatchProcess	PROC :INFO ::: Completed with status =0	05.08.2010 01:50:52
6		MainProcess	PROC :INFO ::: Completed with total =98 success=98 failed=0	05.08.2010 01:50:52
7	EXT_RESOURCE_PROC	Resource-Aggren	PROC :INFO ::: Completed with status =0	05.08.2010 01:50:53
8	EXT_RESOURCE_PROC	MainProcess	PROC :INFO ::: Completed with total =0 success=0 failed=0	05.08.2010 01:50:53
9	PROCESS_BUSPNODE	Load-BusPNodes	PROC :INFO ::: Completed with status =0	05.08.2010 01:50:57
10	PROCESS_BUSPNODE	MainProcess	PROC :INFO ::: Completed with total =1900 success=1900 failed=0	05.08.2010 01:50:57
11	ValidateResource	Common Procs	PROC :SEVERE :: Error ID: : ERROR: No data found. : SELECT DISTINCT mr.oid, mr.agencyId FROM modelresource mr WHERE mr.externalid =2101 AND mr.zoneid =101 AND to_timestamp('06-AUG-10 12.00.00.000000 AM')>= mr.effectivedate AND to_timestamp('06-AUG-10 12.00.00.000000	05.08.2010 02:18:50

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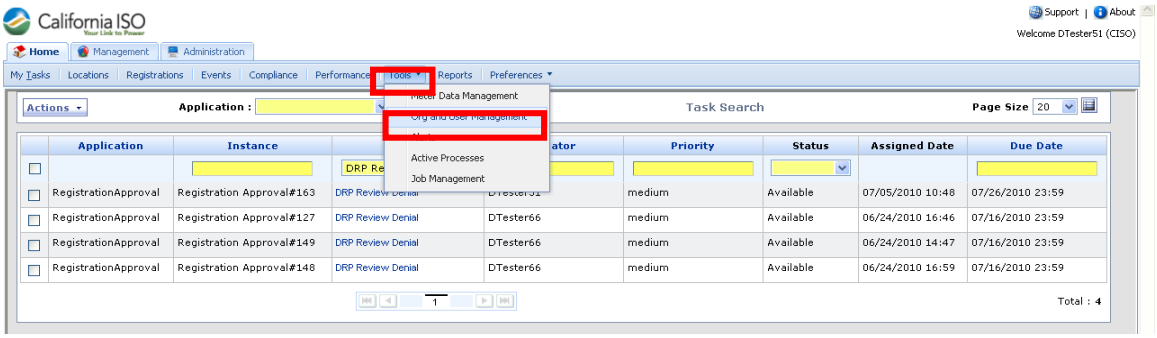
Useful Information

To access a list of all LSE, UDC, and DRPs, the User must go to the **Tools** menu, and select **Org and User Management**.



This will take the User to the **Organization Search** screen, where the user will be able to associate the various User ID or **Short Names** to their Organization.

Short Name- the User ID or each organization

Name – the full name of the organization

Roles- The role each organization has

Status – identifies if the organization is currently actively participating in the DRS

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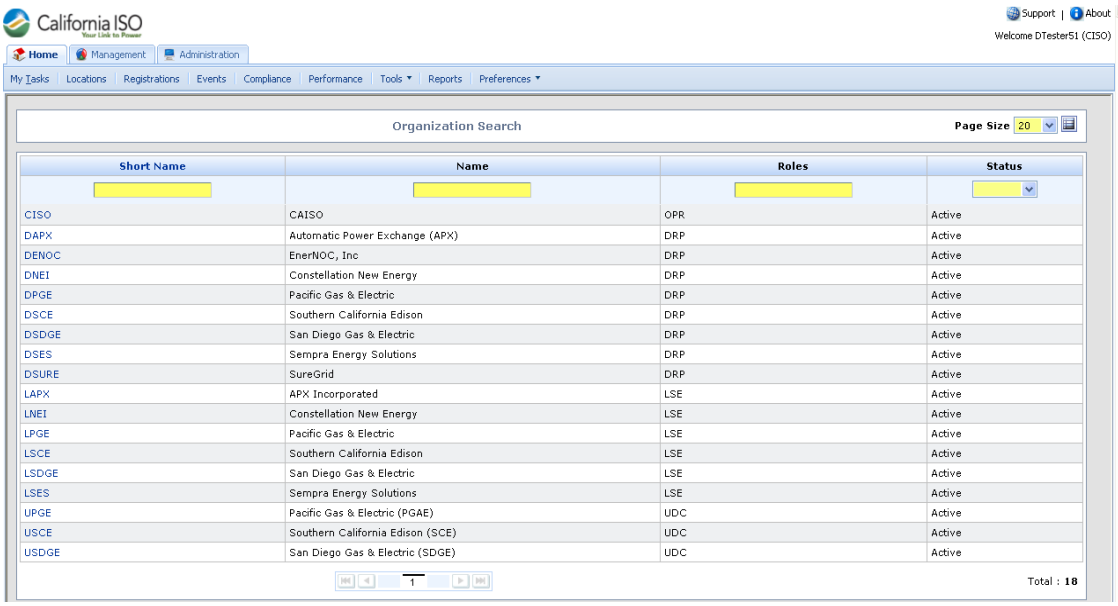
California ISO
Support | About
Welcome DTester51 (CISO)
Home
Management
Administration
My Tasks | Locations | Registrations | Events | Compliance | Performance | Tools | Reports | Preferences
Organization Search
Page Size 20
Short Name | Name | Roles | Status
CISO | CAISO | OPR | Active
DAPX | Automatic Power Exchange (APX) | DRP | Active
DENOC | EnerNOC, Inc | DRP | Active
DNEI | Constellation New Energy | DRP | Active
DPGE | Pacific Gas & Electric | DRP | Active
DSCE | Southern California Edison | DRP | Active
DSDGE | San Diego Gas & Electric | DRP | Active
DSES | Sempra Energy Solutions | DRP | Active
DSURE | SureGrid | DRP | Active
LAPX | APX Incorporated | LSE | Active
LNEI | Constellation New Energy | LSE | Active
LPGE | Pacific Gas & Electric | LSE | Active
LSCE | Southern California Edison | LSE | Active
LSDGE | San Diego Gas & Electric | LSE | Active
LSES | Sempra Energy Solutions | LSE | Active
UPGE | Pacific Gas & Electric (PGAE) | UDC | Active
USCE | Southern California Edison (SCE) | UDC | Active
USDGE | San Diego Gas & Electric (SDGE) | UDC | Active
1
Total : 18

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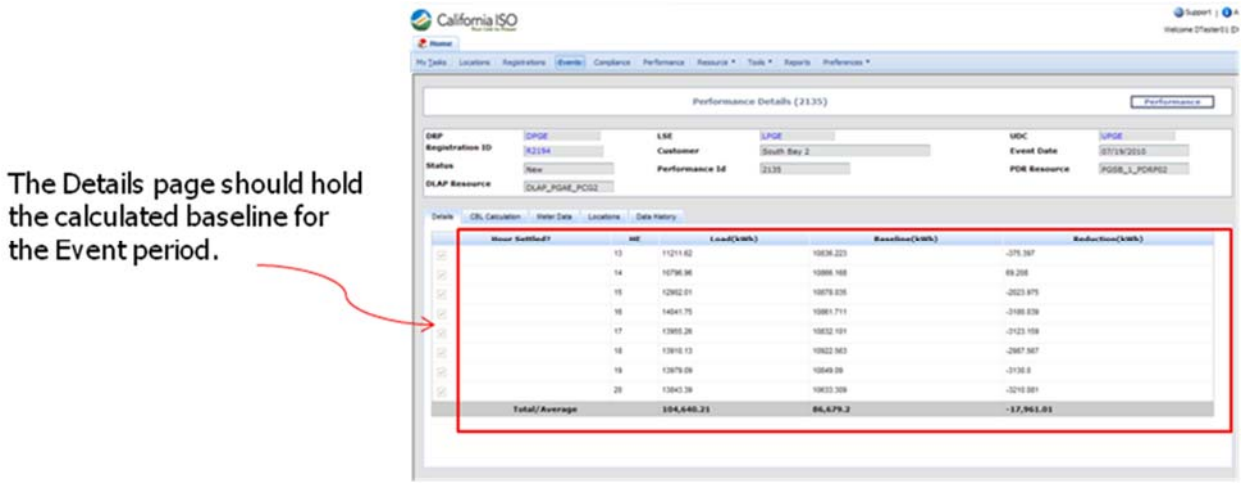
DRS Calculations

This section provides users a step-by-step process for calculating the load reductions.

Getting the Data for baseline Calculation

To manually calculate the baseline a user must go to the Performance Details of a registration and they will be able to view the DRS calculation for the Baseline and load reduction.



Click on the CBL calculations tab to view what days are used in the CBL, and download the CBL summary.

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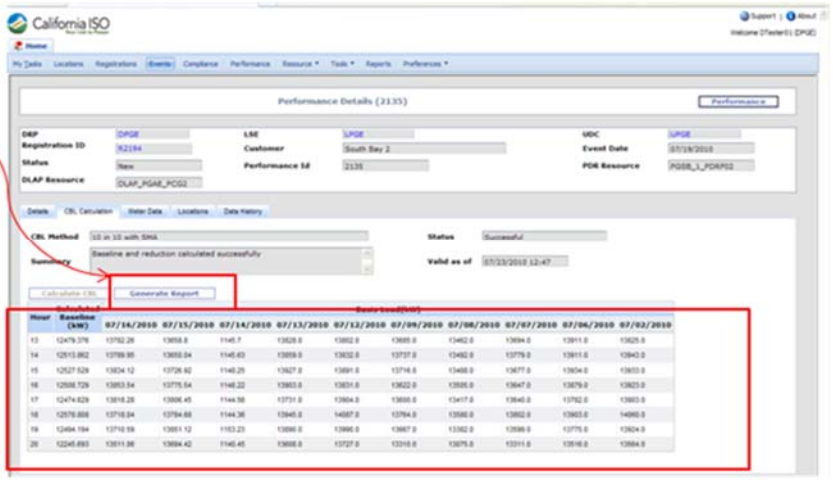
To download the CBL summary click on the Generate Report button

Shows a matrix of the days and data used in calculating the baseline for each hour.



The CBL Summary gives user the different components for calculating the Load reduction.

Hour: Hour Ending

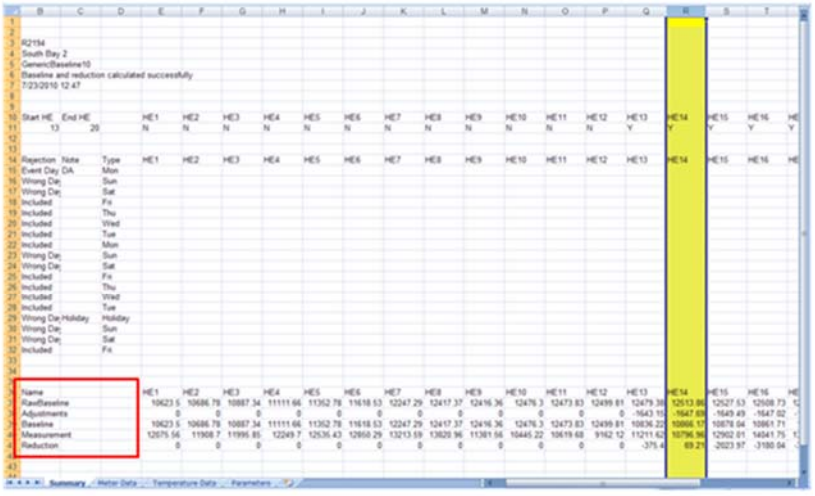
Raw Baseline: Raw baseline for each hour.

Adjustment: Calculated load point adjustment.

Baseline: The modified baseline factoring in the adjustment calculation.

Measurement: Meter data for that period.

Reduction: the load reduction measured for the hour



Calculating Raw Baseline

Next we will calculate the raw baseline. The raw CBL is the average for each hour taken for 10 like days.

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Hour	Calculated Baseline(kW)	Basis Load(kW)									
		7/16/2010	7/15/2010	7/14/2010	7/13/2010	7/12/2010	7/9/2010	7/8/2010	7/7/2010	7/6/2010	7/2/2010
13	12479.38	13782.26	13658.8	1145.7	13828	13802	13685	13462	13694	13911	13825
14	12513.86	13789.95	13650.04	1145.63	13859	13832	13737	13492	13779	13911	13943

This is a CBL for 7/19/2010, a week day. The CBL looks for 10 week days without an outage or an event. → Then separates out each hour, for example all HE13 and HE14 from each day. → All HE 13 for each designated day are added together and divided by 10 to get the average. This Average becomes the Raw Baseline

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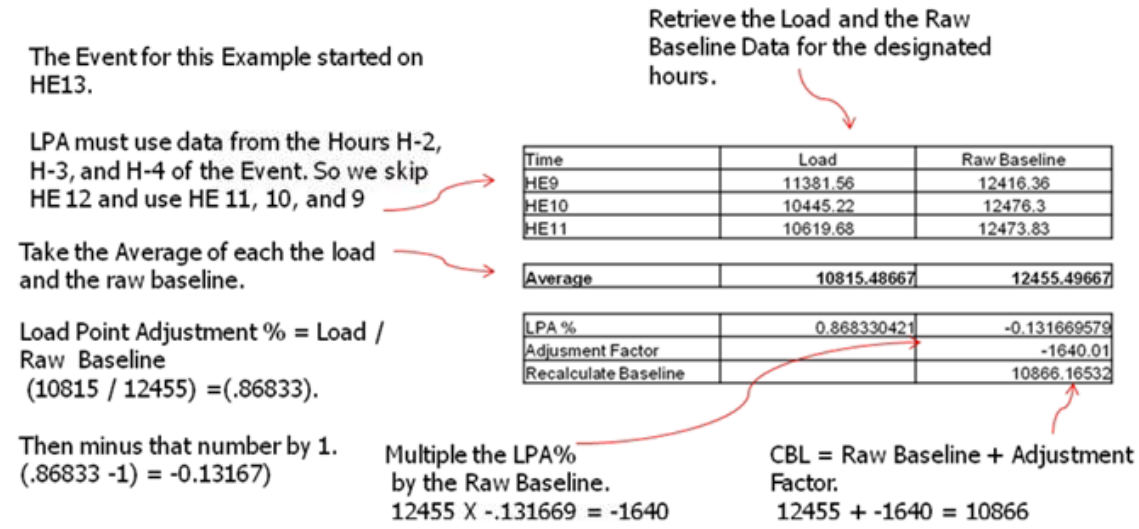
Calculating Load Point Adjustment

Using the same data for the example above, the load point adjustment for HE 14 is calculated as follows


The Event for this Example started on HE13.
LPA must use data from the Hours H-2, H-3, and H-4 of the Event. So we skip HE 12 and use HE 11, 10, and 9
Take the Average of each the load and the raw baseline.
Load Point Adjustment % = Load / Raw Baseline
(10815 / 12455) =(.86833).
Then minus that number by 1.
(.86833 -1) = -0.13167)
Retrieve the Load and the Raw Baseline Data for the designated hours.
Time | Load | Raw Baseline
HE9 | 11381.56 | 12416.36
HE10 | 10445.22 | 12476.3
HE11 | 10619.68 | 12473.83
Average | 10815.48667 | 12455.49667
LPA % | 0.868330421 | -0.131669579
Adjusment Factor | | -1640.01
Recalculate Baseline | | 10866.16532
Multiple the LPA% by the Raw Baseline.
12455 X -.131669 = -1640
CBL = Raw Baseline + Adjustment Factor.
12455 + -1640 = 10866

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Calculating the Load Reduction using Baseline

Demand Response Energy Measurement is the Energy quantity calculated by comparing the Customer Baseline of a Proxy Demand Resource or Reliability Demand Response Resource against its actual underlying Load for a Demand Response Event.

Note: The term *Demand Response Energy Measurement* was previously referenced as *PDR Performance Measurement*.

Using the same example, the load reduction is calculated as followed.

Hourly

Interval	Load	CBL	Reduction	PDR Perf
12	9162.1	12499.81	3337.69	3337.69
13	11212	10836.22	-375.4	0
14	10797	10866.17	69.21	69.21
15	12902	10878.04	-2023.97	0

Load Reduction is CBL – Load
10866.17 – 10797 = 69.21.

The Load Reduction is divided by 12 to get the 12, 5 minute intervals for each hour, resulting in 5.7675 kW reduction for each interval.

5-Minute - Raw Decomposition

Interval	Load	Baseline	Reduction	PDR Perf
14:00	899.747	905.5142	5.7675	5.7675
14:05	899.747	905.5142	5.7675	5.7675
14:10	899.747	905.5142	5.7675	5.7675
14:15	899.747	905.5142	5.7675	5.7675
14:20	899.747	905.5142	5.7675	5.7675
14:25	899.747	905.5142	5.7675	5.7675
14:30	899.747	905.5142	5.7675	5.7675
14:35	899.747	905.5142	5.7675	5.7675
14:40	899.747	905.5142	5.7675	5.7675
14:45	899.747	905.5142	5.7675	5.7675
14:50	899.747	905.5142	5.7675	5.7675
14:55	899.747	905.5142	5.7675	5.7675
Sum	10797	10866.17	69.21	69.21
Avg	899.747	905.5142	5.7675	5.7675

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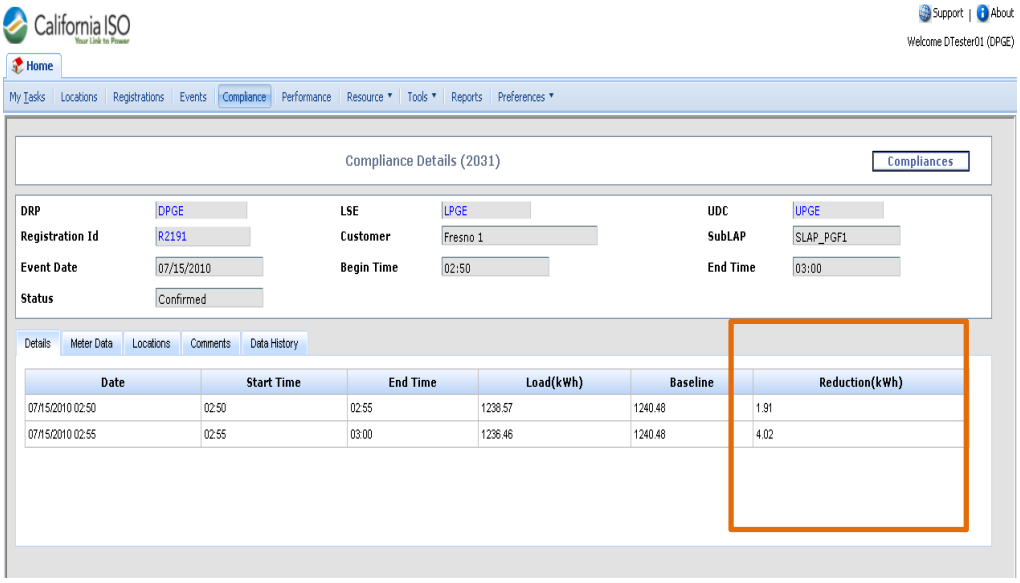
Meter Before and Meter After

Meter before and meter after calculation occur as followed:


California ISO
Support | About
Welcome DTester01 (DPGE)
Home
My Tasks | Locations | Registrations | Events | Compliance | Performance | Resource | Tools | Reports | Preferences
Compliance Details (2031)
Compliances
DRP DPGE
LSE LPGE
UDC UPGE
Registration Id R2191
Customer Fresno 1
SubLAP SLAP_PGF1
Event Date 07/15/2010
Begin Time 02:50
End Time 03:00
Status Confirmed
Details | Meter Data | Locations | Comments | Data History
Date | Start Time | End Time | Load(kWh) | Baseline | Reduction(kWh)
07/15/2010 02:50 | 02:50 | 02:55 | 1238.57 | 1240.48 | 1.91
07/15/2010 02:55 | 02:55 | 03:00 | 1236.46 | 1240.48 | 4.02

Load Reduction = Baseline - Load

Baseline was determined by the load for 0240 interval and applied to the entire AS compliance event.

Baseline: **1240.48**

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Outage Management System (OMS) Submission

In regards to PDR/RDRR resources, OMS outages can be submitted for the following:

- a PDR/RDRR resource for short term outages,
- to remove them from the market due to exceptionally low load, or
- is unable to provide AS

A scheduling coordinator can also submit long term outages for 6 months or greater if they want to temporarily remove a PDR/RDRR resource from the market without the need to update or reregister the resource later.

PDR/RDRR resources are allowed to have outages but will be limited to the following:

- update to a resources ramp rates, or
- modifying the capacity to 0

PDR/RDRR resources are an all or nothing resource, which limits how much a resource can be derated. They are also prevented from submitting a rerated of their PMin.

OMS is used to enforce these business rules. The system allows PDR/RDRR resource to submit only PMax derates or Ramp Rate derates. Any other data entered in OMS through either the UI or API for a PDR Resource ID shall return an error message. It also has a validation to **restrict PMax derates entries for PDR/RDRR Resource IDs to be only 0 MWs.** A PMax derate is used to indicate a day should not be used in the baseline calculation. Since a day is either valid or invalid, no partial derates are permitted. Any PMax value other than 0 MWs entered in OMS through either the UI or API for a PDR/RDRR Resource ID shall return an error message**. Cause codes are no longer required.**

In order to keep a resource ID active and reduce the need to make updates to the CAISO Master File, the DRP using their scheduling coordinator can submit extended outages to derate their resource to 0 MW when they do not wish to participate in the market.

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Helpful Links

Document	Link
Application access request forms and application installation instructions	http://www.caiso.com/Documents/Application%20access%20request%20forms%20and%20application%20installation%20instructions
Access and Identity Management (AIM) User Guide	http://www.caiso.com/Documents/AccessandIdentityManagement_AIM_UserGuide.pdf
Demand Resource Participation Guide	http://www.caiso.com/Documents/DemandResponseResourceParticipationGuide.pdf
Demand Response and Proxy Demand Resources FAQ	http://www.caiso.com/Documents/DemandResponseandProxyDemandResourcesFrequentlyAskedQuestions.pdf
Demand Response Location Registration(DRRS) Training	http://www.caiso.com/Documents/EnablingDemandResponse_DemandResponseLocationRegistration.pdf
Demand Response Provider Agreement Information Request Sheet	http://www.caiso.com/Documents/DemandResponseProviderAgreementInformationRequestSheet.doc
Direct Telemetry BPM	http://bpmcm.caiso.com/Pages/BPMDetails.aspx?BPM=Direct Telemetry
External User Application Access request Form	http://www.caiso.com/Documents/UserApplicationAccessRequestForm.xls
Information Request Sheet to initiate a Demand Response Provider agreement with the ISO	http://www.caiso.com/Documents/ProxyDemandResourceAgreementInformationRequestSheetFeb02_2010.doc
ISO Connected Entity Service Guide	http://www.caiso.com/Documents/ISOConnectedEntityServiceGuide.pdf
List of certified SC's	http://www.caiso.com/Documents/List-SchedulingCoordinators_CRRHoldersandConvergenceBiddingEntities.pdf

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List of Demand Response Participants	http://www.caiso.com/Documents/ListofDemandResponseParticipants.pdf
Load and Demand Response Page	http://www.caiso.com/participate/Pages/Load/Default.aspx
Load Serving Entity Request (LSE ID) Form	http://www.caiso.com/Documents/LoadServingEntityIDRequestForm.doc
Meter Service Agreement ISO Metered Entities Information Request Sheet	http://www.caiso.com/Documents/MeterServiceAgreement_ISOMeteredEntitiesInformationRequestSheet.doc
Meter Service Agreement Scheduling Coordinators Information Request Sheet	http://www.caiso.com/Documents/MeterServiceAgreement_SchedulingCoordinatorsInformationRequestSheet.doc
Metering BPM	http://bpmcm.caiso.com/Pages/BPMDetails.aspx?BPM=Metering
New Resource Implementation Checklist	http://www.caiso.com/Documents/NewResourceImplementationChecklist.xls
Point of Contact (POC) form	http://www.caiso.com/Documents/Point%20of%20contact%20establishment%20and%20requirements
Proxy Demand Resource technical FAQ	http://www.caiso.com/Documents/PDRTechnicalFAQs.pdf
Reliability Demand Response Resource Training	http://www.caiso.com/Documents/ReliabilityDemandResponseResourceOverview.pdf
Requirements for becoming and SC	http://www.caiso.com/participate/Pages/SchedulingCoordinator/Default.aspx
Technical Documentation	http://www.caiso.com/participate/Pages/ApplicationAccess/Default.aspx

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Attachment A

Proxy Demand Resource (PDR) and Reliability Demand Response Resource (RDRR)

Baseline Calculation Example

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Attachment A: PDR and RDRR Baseline Calculation Example

The following is an example of a Baseline, Load Point Adjustment, Demand Response Energy Measurement and Default Load Adjustment applicable for either a PDR or RDRR. (NOTE: the example does not include RT UIE adjustment as it is not applicable for this DA award only example)

Baseline Calculation

Example: PDR Resource id PGEB_1_PDRC01 with following assumptions

- DA awards for Trade Dates 4/26/09 and 4/27/09 HE14
- DA award occurs in HE14 for TD 5/1/09
- No other event hours for 5/1/09
- Data used for calculating the Raw $Baseline_{reh} = (1 / (d) * \sum_d Load_{rdh}$
- Default Load Adjustment is applicable

Date	Type	Event	HE14
4/15/2009	WD	N	15.00
4/16/2009	WD	N	15.75
4/17/2009	WE	N	10.50
4/18/2009	WE	N	9.50
4/19/2009	WD	N	13.75
4/20/2009	WD	N	14.00
4/21/2009	WD	N	14.75
4/22/2009	WD	N	14.00
4/23/2009	WD	N	13.75
4/24/2009	WE	N	6.00
4/25/2009	WE	N	15.75
4/26/2009	WD	Y	14.80
4/27/2009	WD	Y	15.50
4/28/2009	WD	N	14.00
4/29/2009	WD	N	14.00
4/30/2009	WD	N	13.80

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Date	MWH	Selection
4/15/2009	15.00	10
4/16/2009	15.75	9
4/19/2009	13.75	8
4/20/2009	14.00	7
4/21/2009	14.75	6
4/22/2009	14.00	5
4/23/2009	13.75	4
4/28/2009	14.00	3
4/29/2009	14.00	2
4/30/2009	13.80	1
10 Day Avg (Raw Baseline)	14.28	

Selection Criteria	Type=WD
	Event=N
Where	WD = Week Day
	WE = Week End
	Event = Y if DA schedule, RT/AS dispatch or Outage

Load Point Adjustment

The following is an example for the load point adjustment calculation:

	Raw Baseline	Metered Load
HE 10	13	12
HE 11	13	11
HE 12	13..4	12.5
SUM	39.4	35.5

Load Point Adjustment (Morning Adjustment) =

Max(.8, Min(1.2, sum load/sum raw baseline) =

Max(.8,min(1.2,35.5/39.4)) = .90

DR Energy Measurement

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Example: PDR Resource id PGEB_1_PDRC01 (continued)

- Assumptions:
  - DA award occurs in HE14 for TD 5/1/09
  - Real time adjustment not applicable since RT dispatch was not during the event hour
  - No other event hours for 5/1/09
  - HE 14 SQMD submitted for PDR Registration 1 underlying load = 11.90 MWH
  - Load Point Adjustment = *Morning Baseline Adjustment* = .90

Raw Baseline		Load Point Adjustment		Baseline		Metered Load		PDR Generation Measurement
14.28	x	0.90	=	12.85	-	11.90	=	0.95 MWH

Default Load Adjustment (DLA) Example: PDR Resource id PGEB_1_PDRC01 (continued)

- Assumptions:
  - Four PDR resources have event on TD 5/1/09 HE14

Effective Date	Registration	Resource	DRP	DRP's SC	LSE's SC	LSE Load Resource ID	Metered Load	10 day Avg Load	Morning Adjustment	Baseline	PDR Gen
4/1/09 - 5/31/09	Reg1	PGEB_1_PDRC01	DRP1	SC1	SC5	DLAP_PGAE_SC5	11.90	14.28	0.90	12.85	0.95
6/1/09 - 9/30/09	Reg2	PGEB_1_PDRC01	DRP1	SC1	SC5	DLAP_PGAE_SC5	n/a	n/a	n/a	n/a	n/a
5/1/09 - 5/1/2020	Reg5	PRMN_6_PDRC01	DRP2	SC1	SC9	DLAP_PGAE_SC9	9.00	10.80	0.94	10.15	1.15
4/1/09 - 9/1/09	Reg11	AMRG_1_PDRC01	DRP3	SC2	SC5	DLAP_PGAE_SC5	9.00	10.80	1.00	10.80	1.80
3/1/2009-3/1/2020	Reg13	ROSE_6_PDRC01	DRP3	SC3	SC2	DLAP_SCE1_SC2	7.00	8.40	1.02	8.57	1.57

Therefore, a DLA is calculated for 3 separate LSEs for PDR Generation in their DLAP

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Default Load Adjustment (DLA)	
DLAP_PGAE_SC5	.95 + 1.80 = 2.75
DLAP_PGAE_SC9	1.15
DLAP_SCE1_SC2	1.57

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